

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032316.D
 Acq On : 27 Jul 2018 11:18
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL072718

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:04 AM

Quant Time: Jul 27 23:23:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1937508	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4255887	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5259838m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3995677	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	1801539	7.71	ppbv	99
3) Chlorodifluoromethane	3.06	51	1850530	9.55	ppbv	100
4) Chloromethane	3.22	50	1135732	9.68	ppbv	96
5) Vinyl Chloride	3.34	62	1039023	9.74	ppbv	100
6) Bromomethane	3.57	94	575640	9.83	ppbv	92
7) Chloroethane	3.65	64	386641	10.20	ppbv	98
8) Dichlorotetrafluoroethane	3.27	85	2089761	8.85	ppbv	100
9) Propene	3.08	41	928480	10.66	ppbv	98
10) Heptane	8.32	43	3128991	10.23	ppbv	99
11) Trichlorofluoromethane	4.06	101	2056333	9.21	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.61	101	1435439	9.42	ppbv	100
13) Ethanol	3.70	45	254114	10.15	ppbv	98
14) Bromoethene	3.84	108	676366	10.11	ppbv	98
15) Acetone	3.96	43	1745336	9.56	ppbv	100
16) 1,3-Butadiene	3.41	39	869950	9.19	ppbv	100
17) tert-Butyl alcohol	4.42	59	553880	9.54	ppbv	99
18) 1,1-Dichloroethene	4.41	96	674430	9.54	ppbv	96
19) Isopropyl Alcohol	4.08	45	1359609	11.16	ppbv #	99
20) Methylene Chloride	4.47	84	619369	8.44	ppbv	98
21) Allyl Chloride	4.54	41	1255942	10.08	ppbv	99
22) trans-1,2-Dichloroethene	5.03	96	705882	10.35	ppbv	99
23) Vinyl Acetate	5.22	43	3359624	10.26	ppbv	99
24) 1,1-Dichloroethane	5.16	63	2197310	9.35	ppbv	99
25) Ethyl Acetate	5.84	43	3809504	9.30	ppbv	100
26) Hexane	5.85	57	1754474	9.46	ppbv	98
27) Carbon Disulfide	4.68	76	1753394	10.40	ppbv	98
28) Methyl tert-Butyl Ether	5.18	73	2631266	10.49	ppbv	100
29) Chloroform	5.92	83	2486340	9.22	ppbv	99
30) Cyclohexane	7.32	84	1510688	10.44	ppbv	100
31) cis-1,2-Dichloroethene	5.71	61	1784123	10.38	ppbv	98
32) 1,1,1-Trichloroethane	6.69	97	2393584	10.03	ppbv	100
34) 2-Butanone	5.40	43	2726728	9.90	ppbv	99
35) Carbon Tetrachloride	7.21	117	2449100	10.13	ppbv	98
36) Benzene	7.08	78	3744593	9.98	ppbv	99
37) 1,2-Dichloroethane	6.49	62	1908214	8.80	ppbv	99
38) Trichloroethene	8.04	130	1464478	10.10	ppbv	96
39) 1,2-Dichloropropane	7.82	63	1454592	7.71	ppbv	98
40) 1,4-Dioxane	8.04	88	604975	10.92	ppbv	87
41) Tetrahydrofuran	6.22	42	1687817	10.83	ppbv	100
42) Bromodichloromethane	8.00	83	3414558	9.73	ppbv	99
43) Methyl Methacrylate	8.22	69	1898478	10.54	ppbv	99

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 ICVVL072718

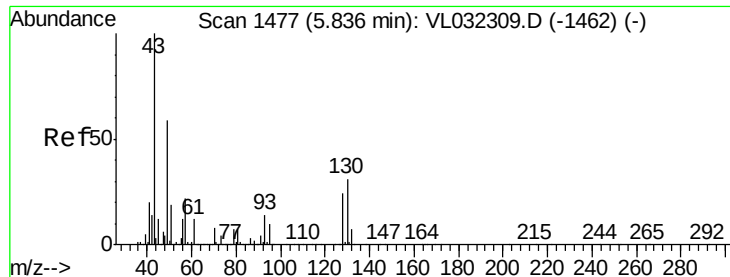
Manual Integrations
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Quant Time: Jul 27 23:23:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.07	57	7795128	9.58	ppbv	100
45) t-1,3-Dichloropropene	9.50	75	2339820	11.21	ppbv	99
46) cis-1,3-Dichloropropene	8.92	75	2772299	10.84	ppbv	96
47) 1,1,2-Trichloroethane	9.70	97	1697483	9.25	ppbv	98
48) Dibromochloromethane	10.54	129	2189761	8.10	ppbv	100
49) Bromoform	13.29	173	2153133	9.67	ppbv	99
50) 4-Methyl-2-Pentanone	8.95	43	4877529	10.03	ppbv	100
51) 2-Hexanone	10.35	43	4024175	10.86	ppbv #	99
52) Tetrachloroethene	11.46	164	1269796	10.04	ppbv	98
53) Toluene	10.03	91	4864441	10.85	ppbv	100
54) 1,2-Dibromoethane	10.85	107	2528017	9.70	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.37	131	1867353	8.61	ppbv #	54
57) Chlorobenzene	12.39	112	3410345	8.34	ppbv	96
58) Ethyl Benzene	12.95	91	6451861	9.78	ppbv	97
59) m/p-Xylene	13.23	91	10224299m	18.21	ppbv	
60) o-Xylene	13.94	91	4979435	9.05	ppbv	99
61) Styrene	13.77	104	3996432	9.86	ppbv	100
62) Isopropylbenzene	14.91	105	7114801	9.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.92	83	3719497	8.30	ppbv	99
64) n-propylbenzene	15.81	120	1841951	9.05	ppbv	97
65) tert-Butylbenzene	17.00	119	5774875	8.74	ppbv	100
66) Benzyl Chloride	17.24	91	3719609	9.45	ppbv	99
67) sec-Butylbenzene	17.55	105	8683226	8.78	ppbv	100
69) p-Isopropyltoluene	17.90	119	6892179	8.99	ppbv	100
70) n-Butylbenzene	18.80	91	7673981	8.67	ppbv	99
71) 2-Chlorotoluene	15.71	91	5676761	9.25	ppbv	100
72) 4-Ethyltoluene	16.09	105	5871529	9.52	ppbv	100
73) 1,3,5-Trimethylbenzene	16.24	105	5542970	9.13	ppbv	100
74) 1,2,4-Trimethylbenzene	17.02	105	5411927	8.45	ppbv	95
75) 1,3-Dichlorobenzene	17.25	146	3017278	8.14	ppbv	100
76) 1,4-Dichlorobenzene	17.39	146	3060640	8.60	ppbv	99
77) 1,2-Dichlorobenzene	18.08	146	2999229	8.23	ppbv	100
78) Hexachloro-1,3-Butadiene	23.63	225	1817627	14.19	ppbv	100
79) Naphthalene	22.51	128	5354300	9.64	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	2675784	12.17	ppbv	99
81) 1,2,4-Trichlorobenzene	22.24	180	2524052	9.09	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 49 Resp: 1937508

Ion Ratio Lower Upper

49 100

128 39.6 20.2 60.6

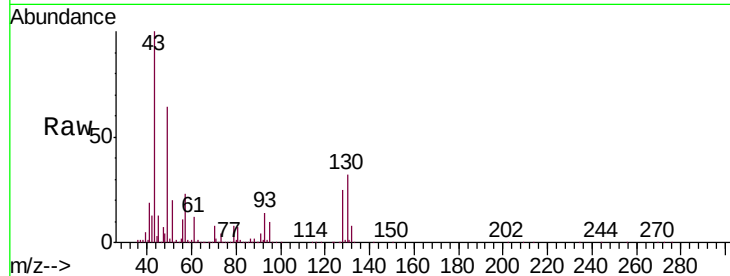
130 50.3 25.8 77.3

Manual Integrations

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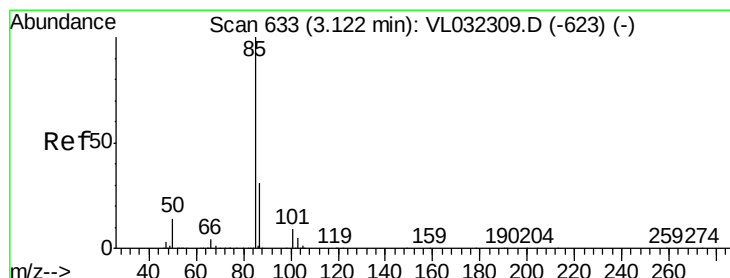
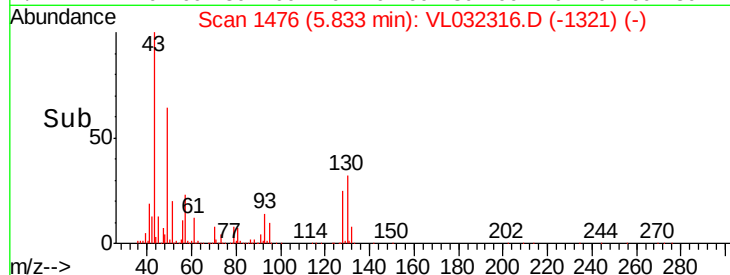
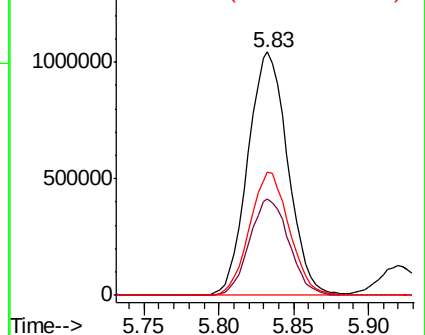
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.71 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL032316.D

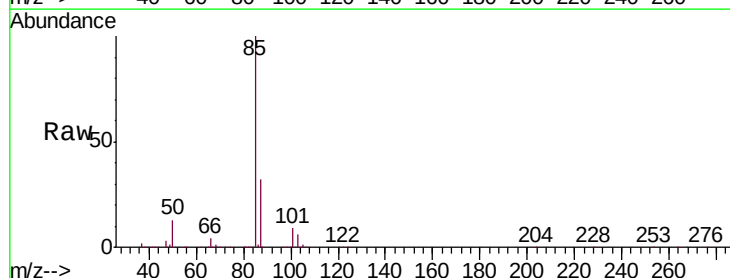
Acq: 27 Jul 2018 11:18

Tgt Ion: 85 Resp: 1801539

Ion Ratio Lower Upper

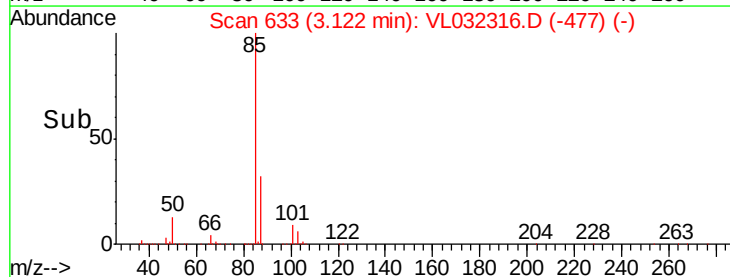
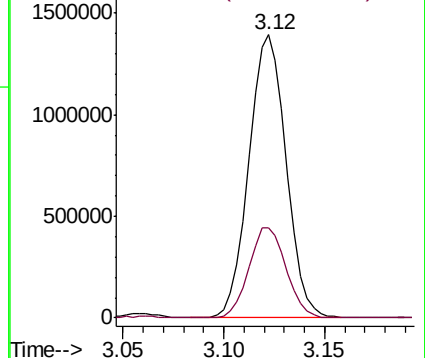
85 100

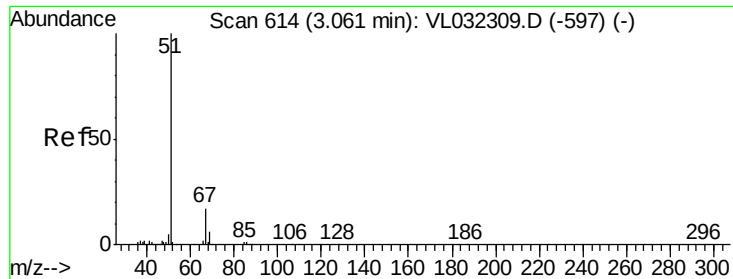
87 31.8 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.55 ppbv

RT: 3.06 min Scan# 613

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 51 Resp: 1850530

Ion Ratio Lower Upper

51 100

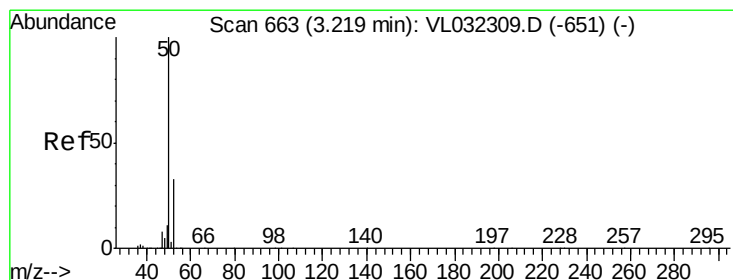
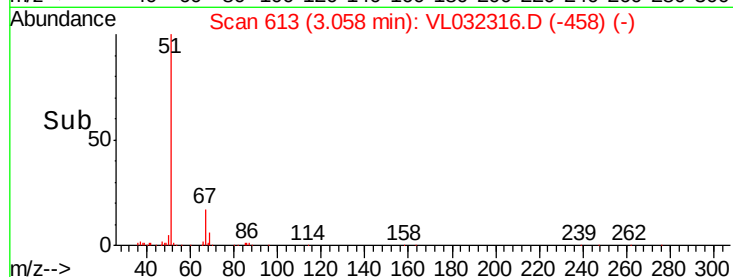
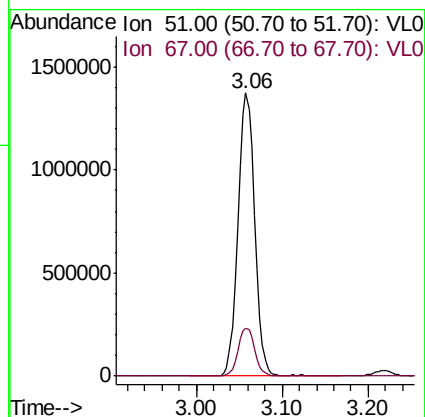
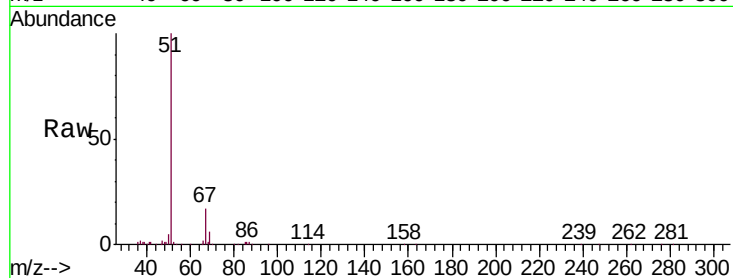
67 16.8 13.5 20.3

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#4

Chloromethane

Concen: 9.68 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032316.D

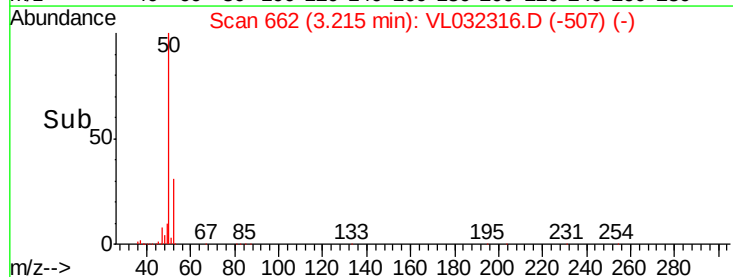
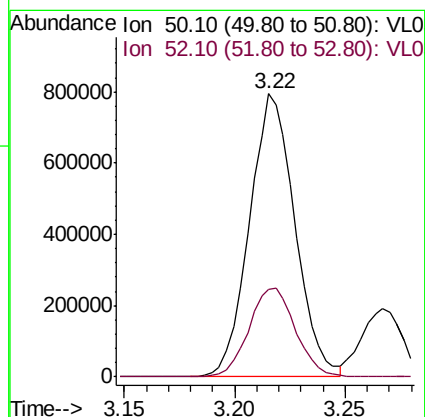
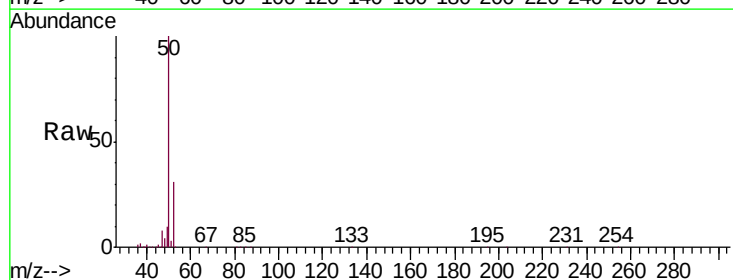
Acq: 27 Jul 2018 11:18

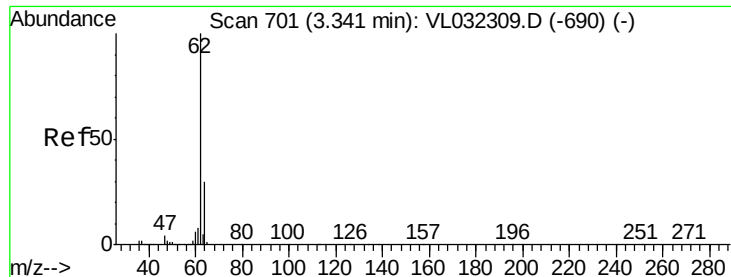
Tgt Ion: 50 Resp: 1135732

Ion Ratio Lower Upper

50 100

52 30.8 26.2 39.4





#5

Vinyl Chloride

Concen: 9.74 ppbv

RT: 3.34 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 62 Resp: 1039023

Ion Ratio Lower Upper

62 100

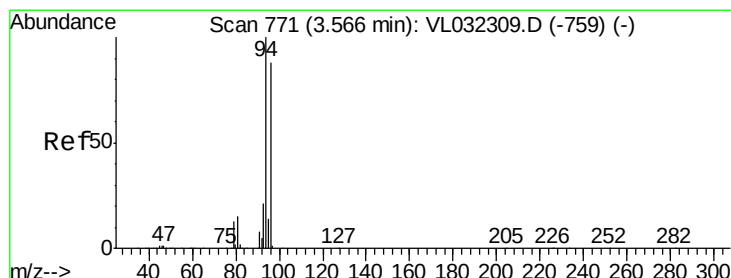
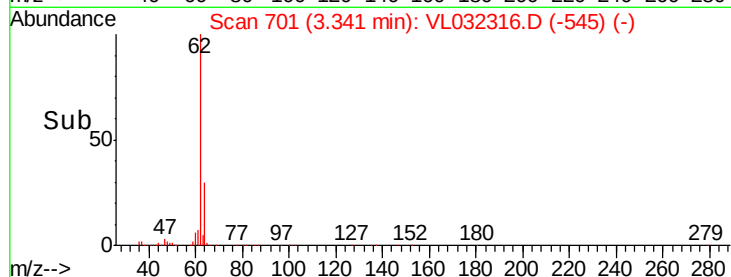
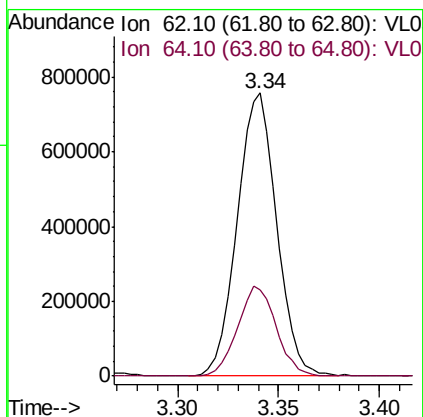
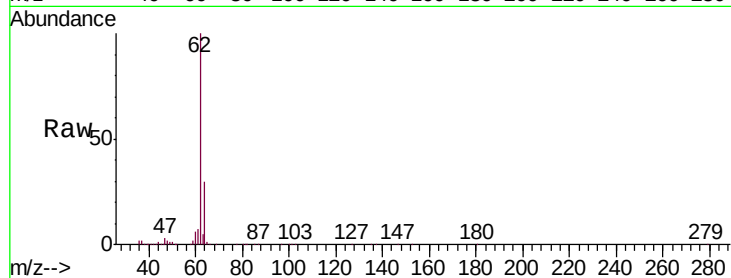
64 30.3 24.1 36.1

Manual Integrations

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#6

Bromomethane

Concen: 9.83 ppbv

RT: 3.57 min Scan# 771

Delta R.T. 0.00 min

Lab File: VL032316.D

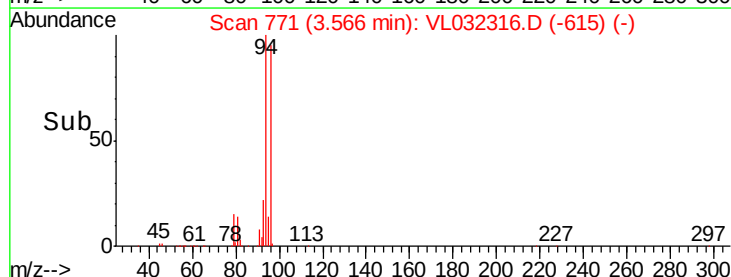
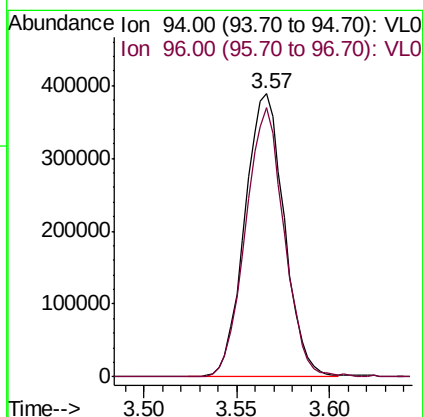
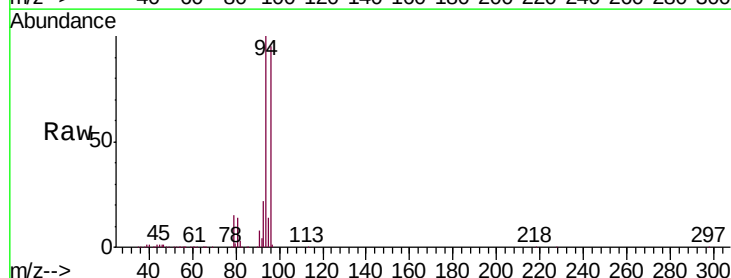
Acq: 27 Jul 2018 11:18

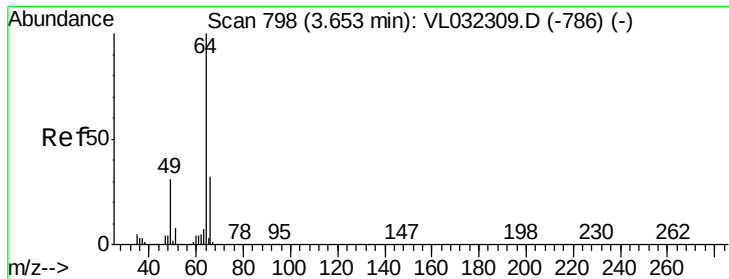
Tgt Ion: 94 Resp: 575640

Ion Ratio Lower Upper

94 100

96 95.0 70.2 105.4





#7

Chloroethane

Concen: 10.20 ppbv

RT: 3.65 min Scan# 798

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 64 Resp: 386641

Ion Ratio Lower Upper

64 100

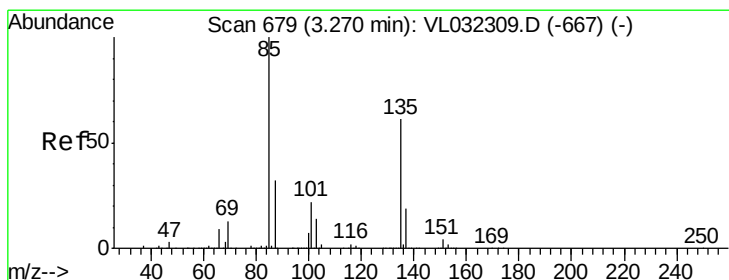
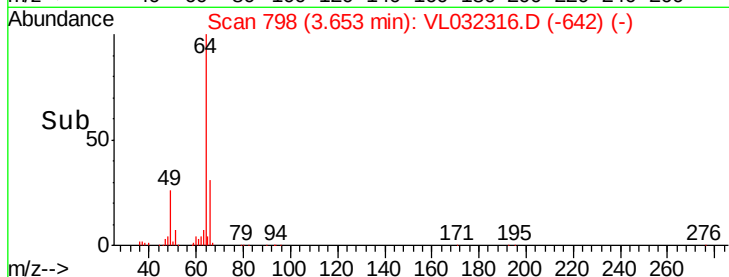
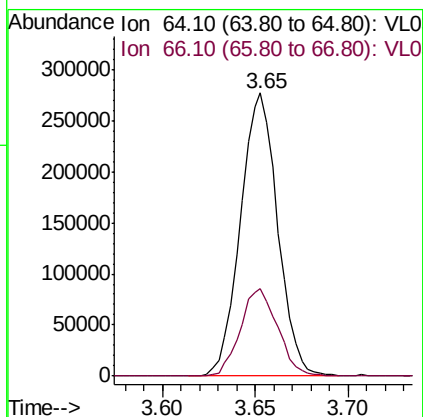
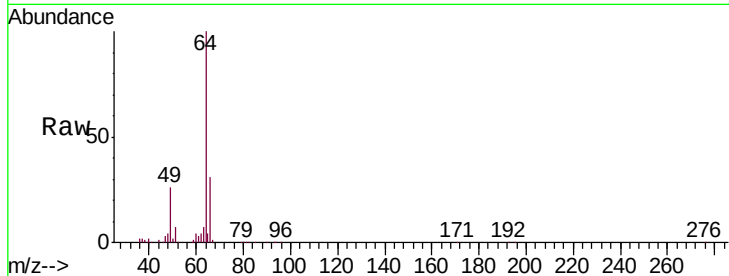
66 31.0 25.7 38.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.85 ppbv

RT: 3.27 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL032316.D

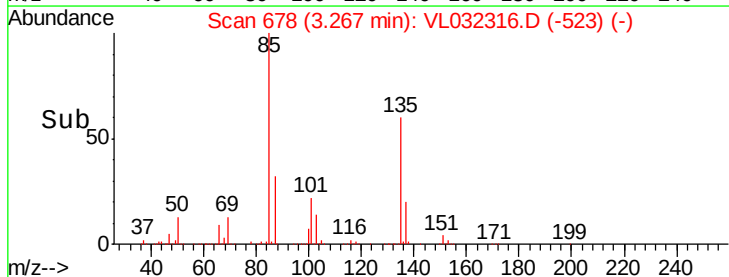
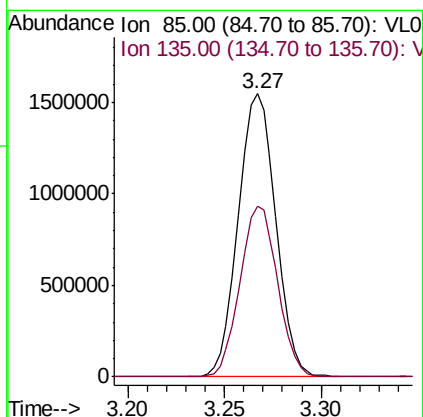
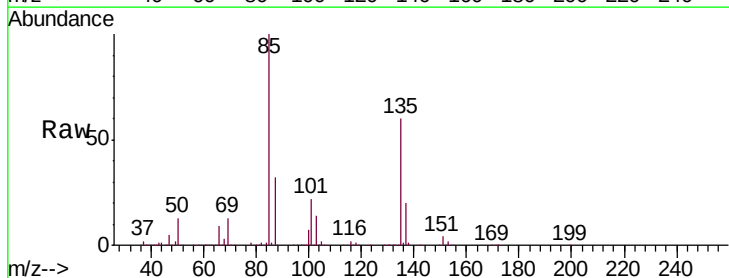
Acq: 27 Jul 2018 11:18

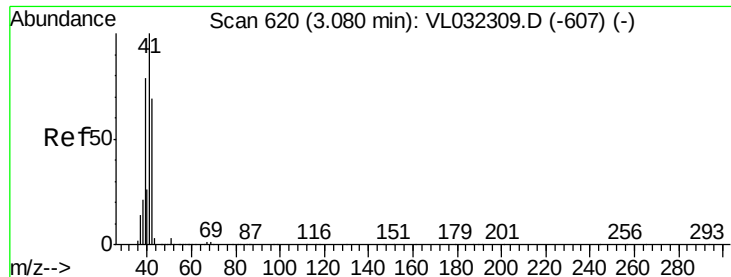
Tgt Ion: 85 Resp: 2089761

Ion Ratio Lower Upper

85 100

135 60.6 48.7 73.1





#9

Propene

Concen: 10.66 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 41 Resp: 928480

Ion Ratio Lower Upper

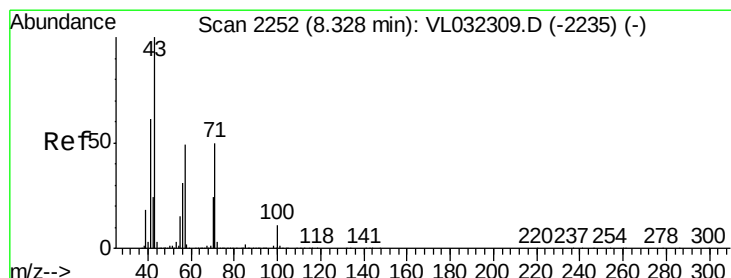
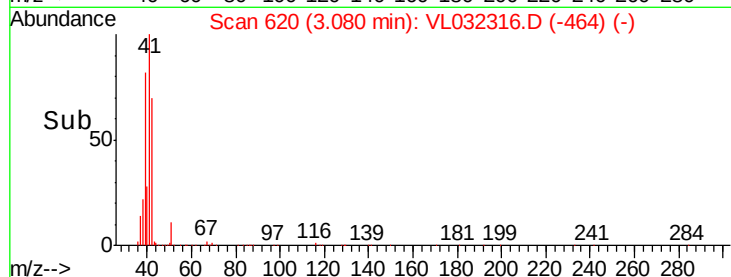
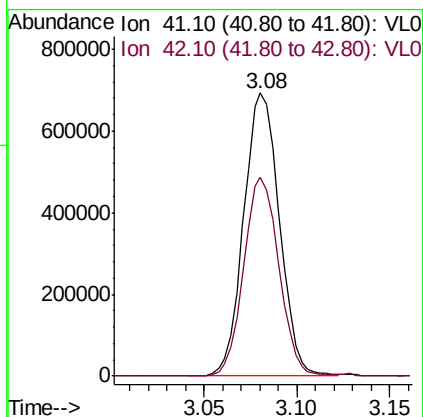
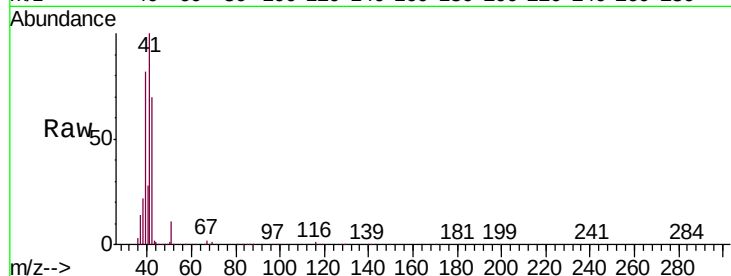
41 100

42 69.5 56.8 85.2

Manual Integrations
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#10

Heptane

Concen: 10.23 ppbv

RT: 8.32 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VL032316.D

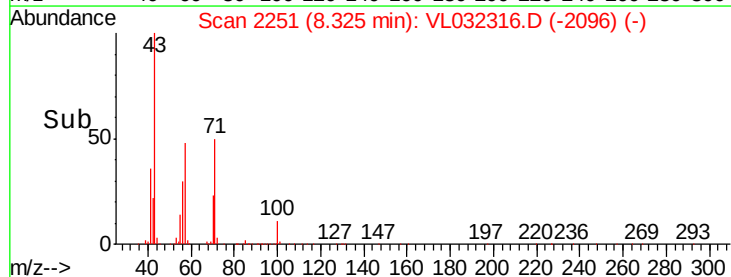
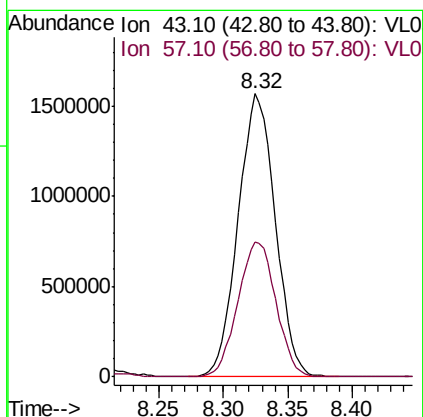
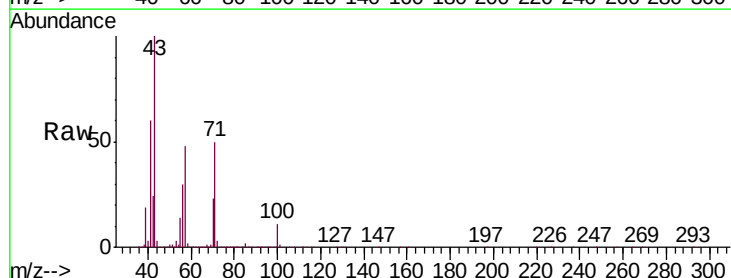
Acq: 27 Jul 2018 11:18

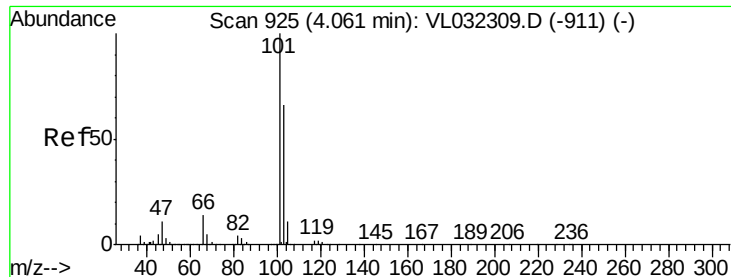
Tgt Ion: 43 Resp: 3128991

Ion Ratio Lower Upper

43 100

57 49.1 39.0 58.4





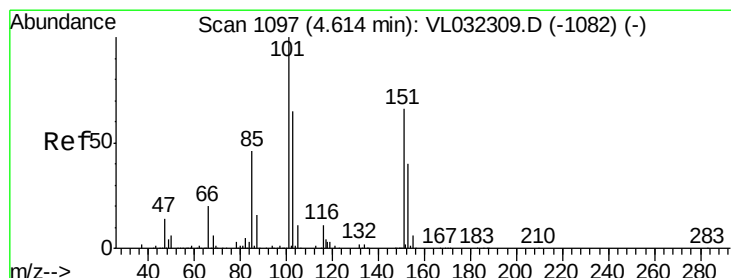
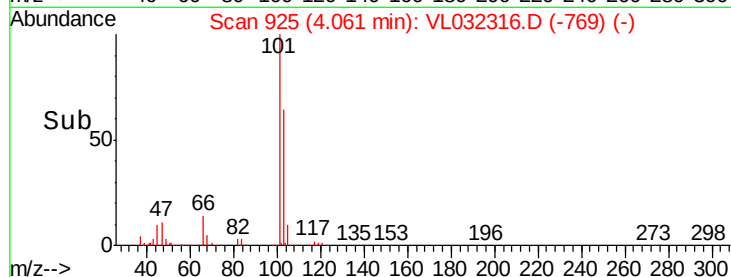
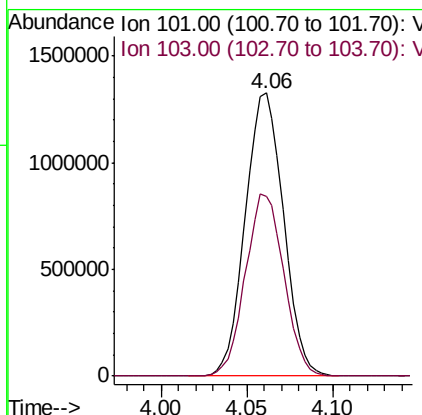
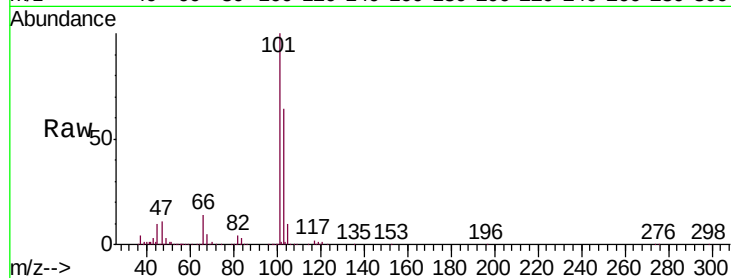
#11
 Trichlorofluoromethane
 Concen: 9.21 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion:101 Resp: 2056333
 Ion Ratio Lower Upper
 101 100
 103 63.5 52.6 78.8

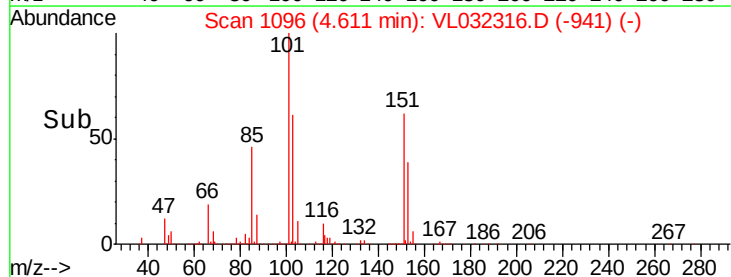
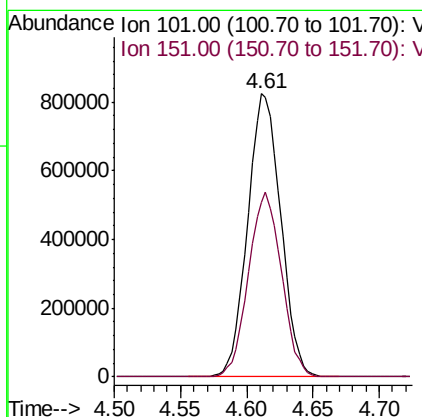
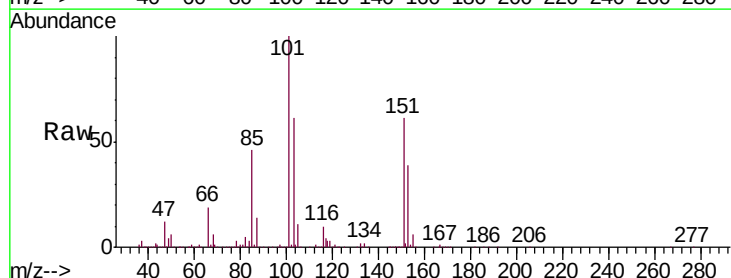
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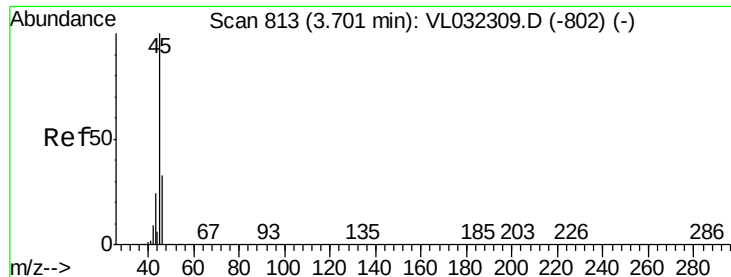
MMDadoda
 7/30/2018 11:43:04 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.42 ppbv
 RT: 4.61 min Scan# 1096
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion:101 Resp: 1435439
 Ion Ratio Lower Upper
 101 100
 151 65.2 52.4 78.6





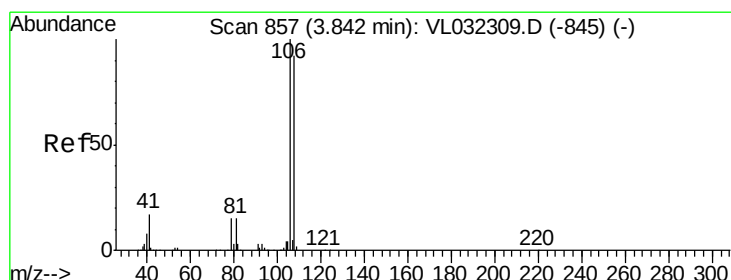
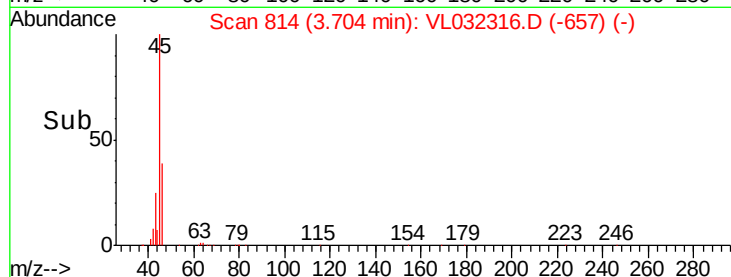
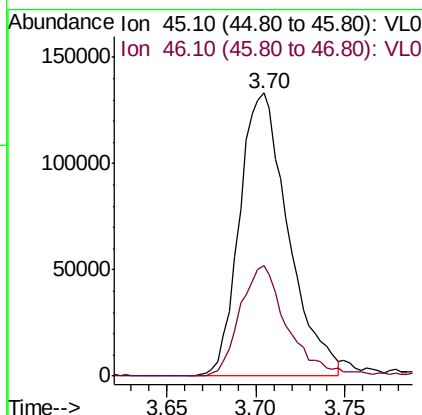
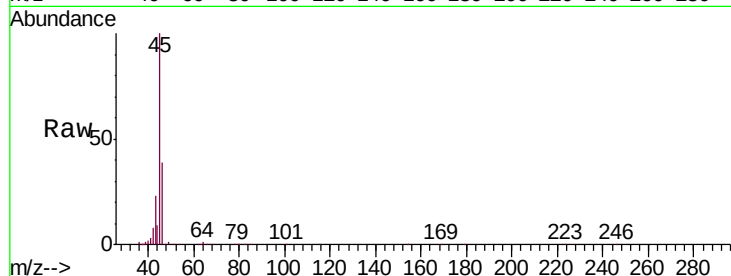
#13
Ethanol
Concen: 10.15 ppbv
RT: 3.70 min Scan# 814
Delta R.T. 0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion	45	46	Ratio	Lower	Upper
254114	100	39.3		15.2	60.6

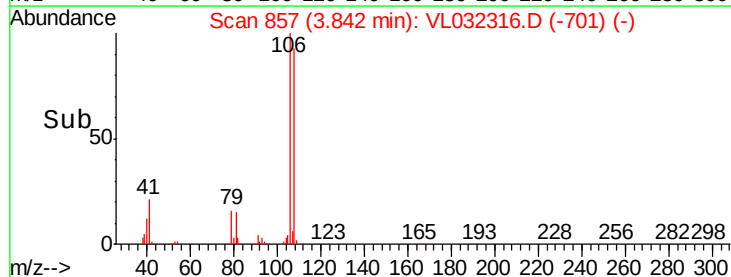
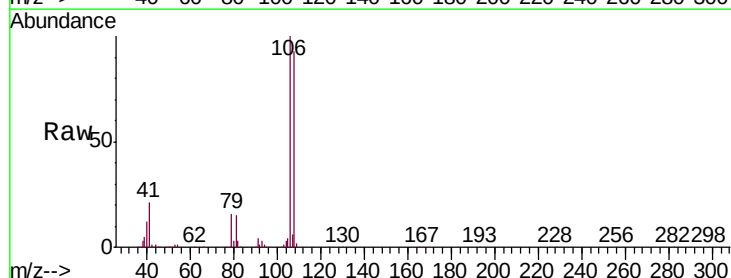
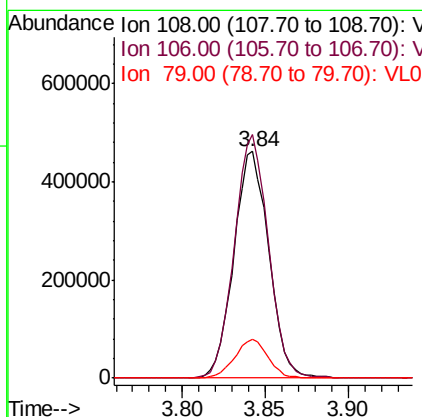
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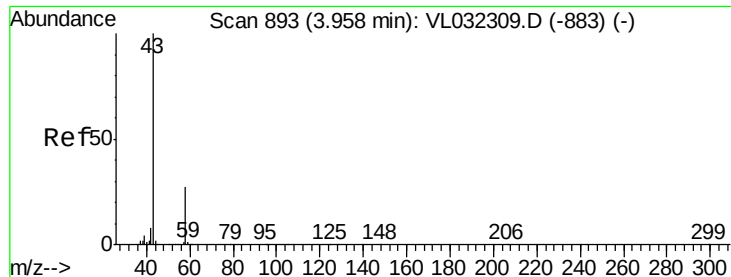
MMDadoda
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#14
Bromoethene
Concen: 10.11 ppbv
RT: 3.84 min Scan# 857
Delta R.T. 0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion	108	106	79	Ratio	Lower	Upper
676366	100	105.3	16.6		86.0	129.0
					12.8	19.2





#15

Acetone

Concen: 9.56 ppbv

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 43 Resp: 1745336

Ion Ratio Lower Upper

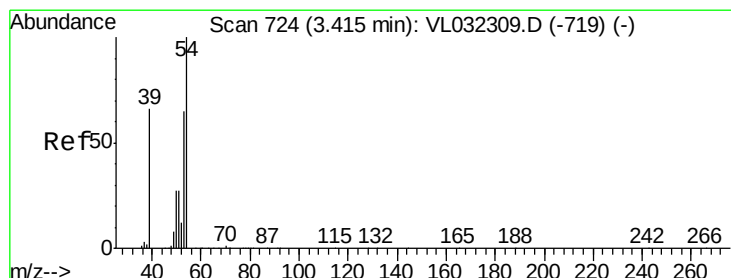
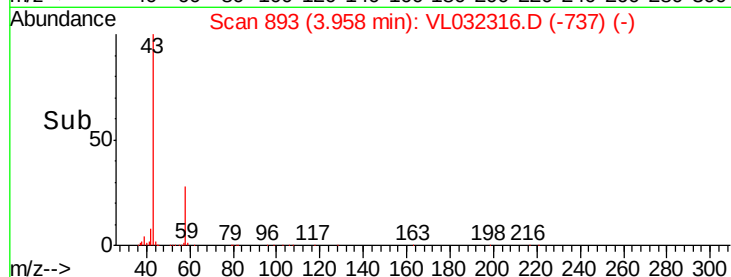
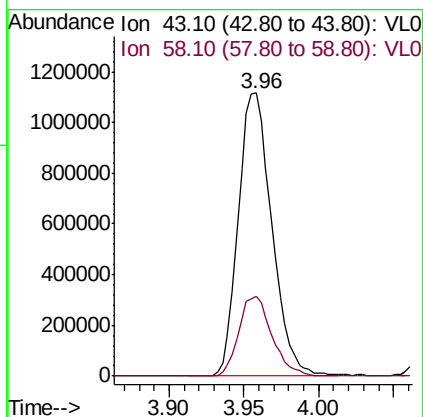
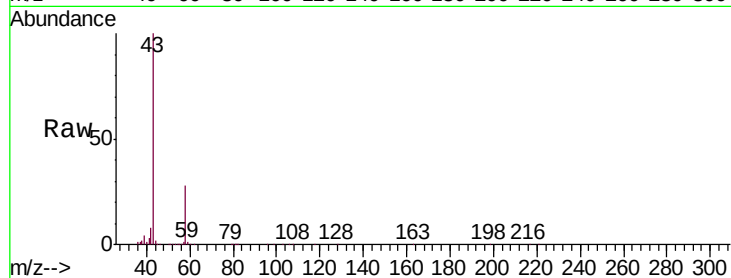
43 100

58 28.1 22.5 33.7

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#16

1,3-Butadiene

Concen: 9.19 ppbv

RT: 3.41 min Scan# 723

Delta R.T. -0.00 min

Lab File: VL032316.D

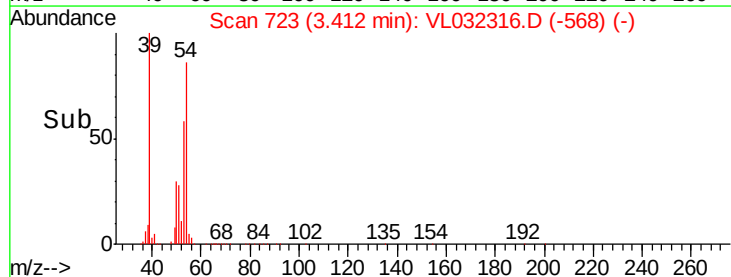
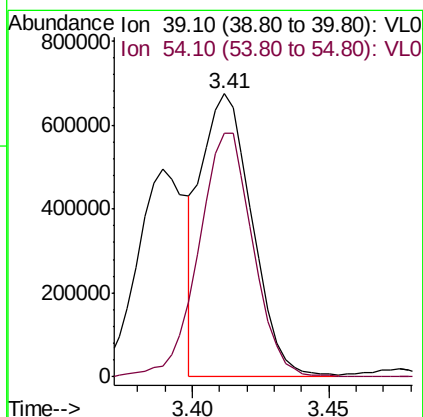
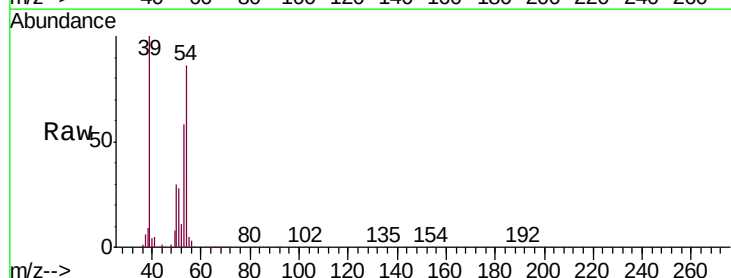
Acq: 27 Jul 2018 11:18

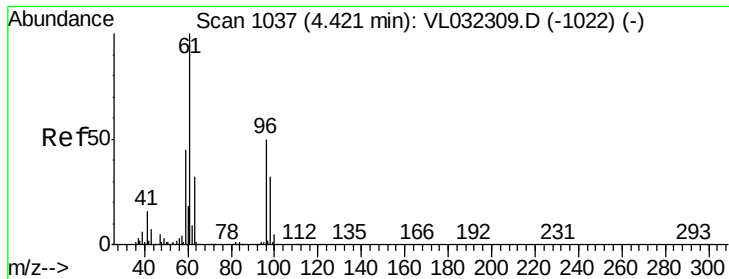
Tgt Ion: 39 Resp: 869950

Ion Ratio Lower Upper

39 100

54 92.9 74.3 111.5





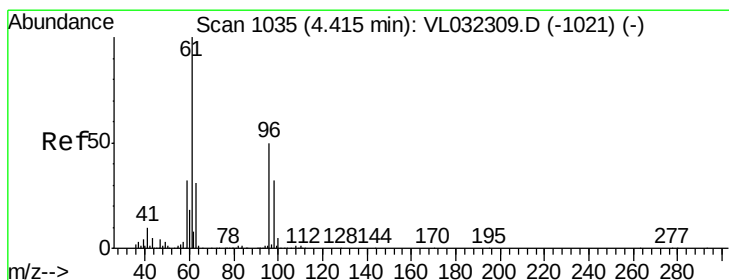
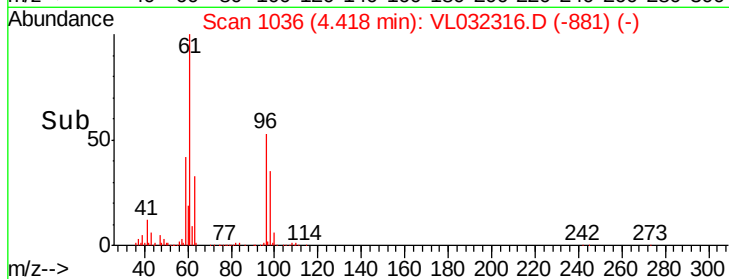
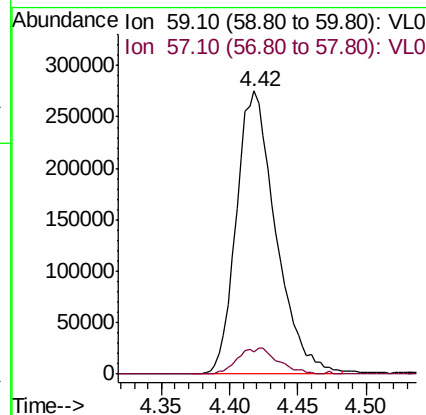
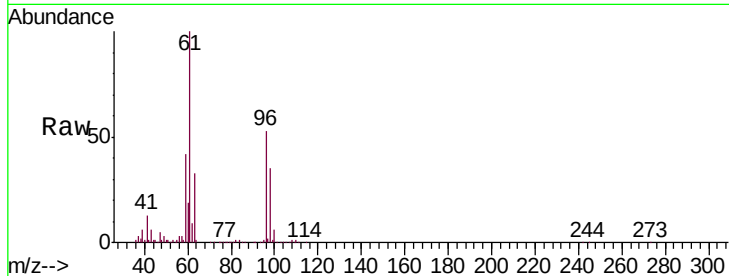
#17
tert-Butyl alcohol
Concen: 9.54 ppbv
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion	59	Ratio	100	Resp	553880
Ion	59	100		Lower	Upper
	57	9.7		8.0	12.0

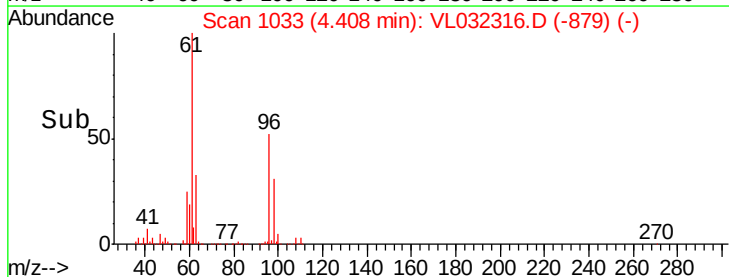
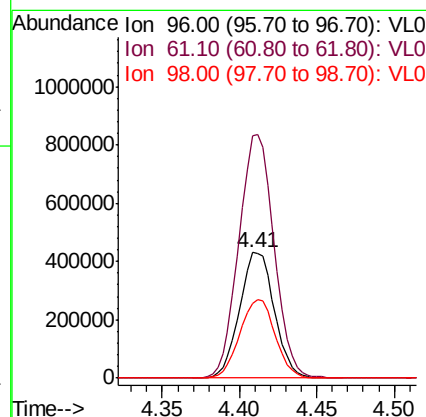
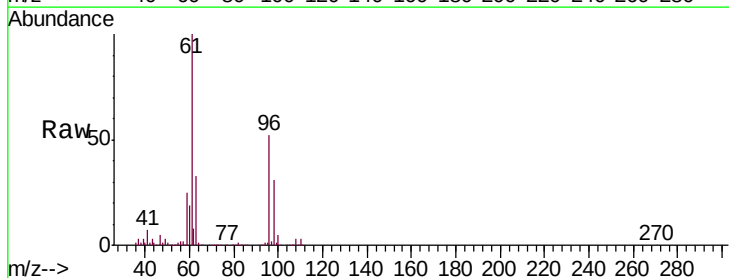
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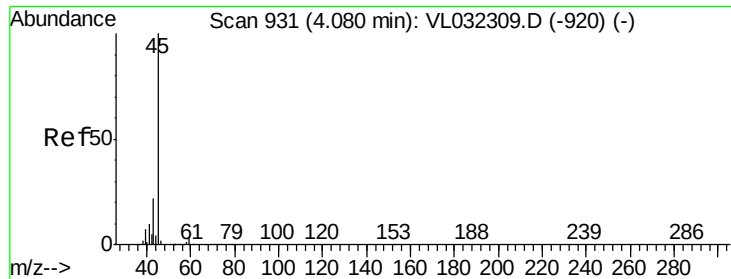
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#18
1,1-Dichloroethene
Concen: 9.54 ppbv
RT: 4.41 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion	96	Ratio	100	Resp	674430
Ion	96	100		Lower	Upper
	61	192.8		159.0	238.4
	98	59.6		51.1	76.7





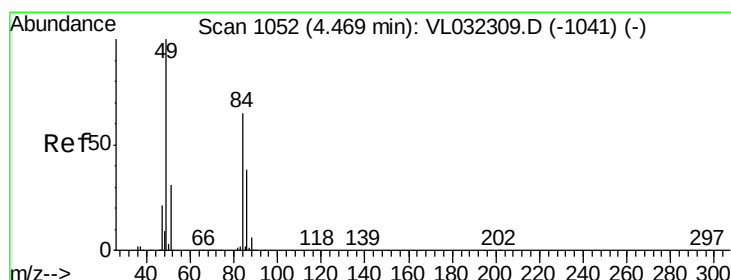
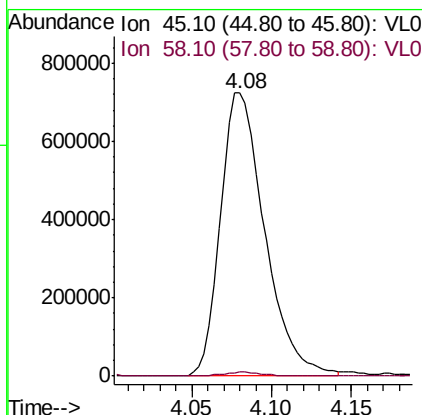
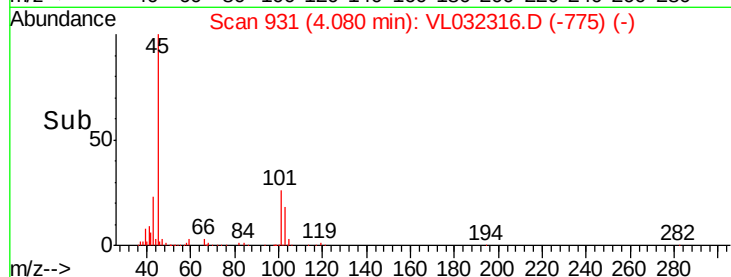
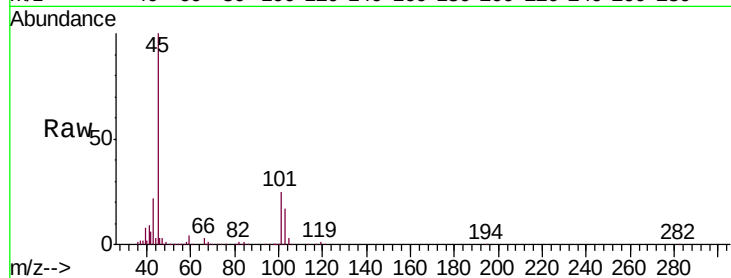
#19
Isopropyl Alcohol
Concen: 11.16 ppbv
RT: 4.08 min Scan# 931
Delta R.T. 0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion: 45 Resp: 1359609
Ion Ratio Lower Upper
45 100
58 1.5 1.5 2.3#

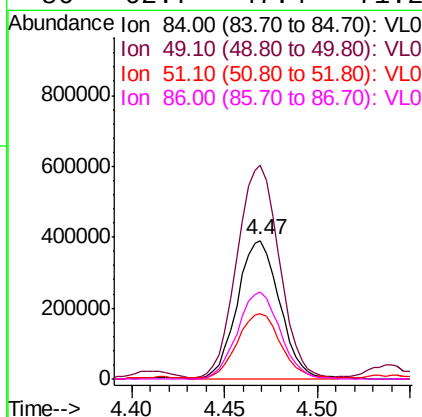
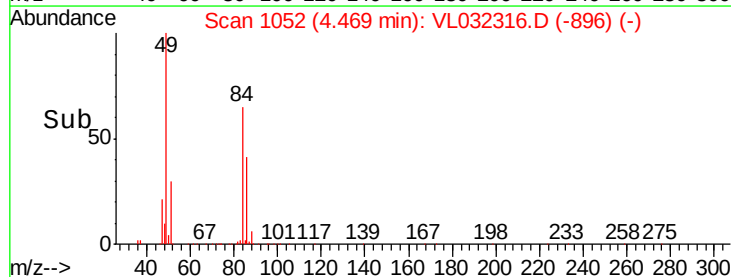
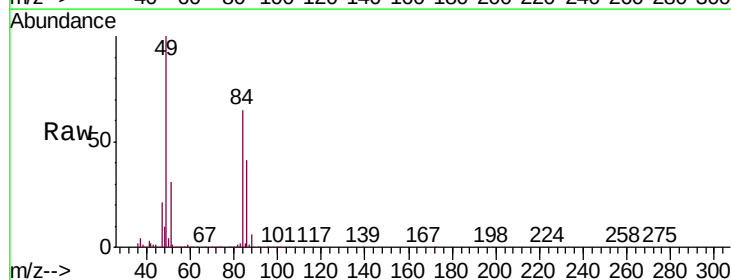
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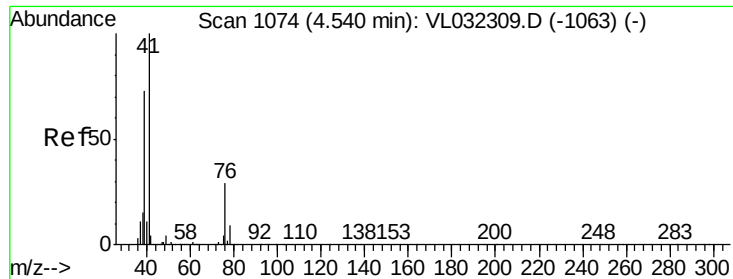
MMDadoda
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#20
Methylene Chloride
Concen: 8.44 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion: 84 Resp: 619369
Ion Ratio Lower Upper
84 100
49 153.5 123.4 185.0
51 46.4 38.2 57.2
86 62.7 47.4 71.2





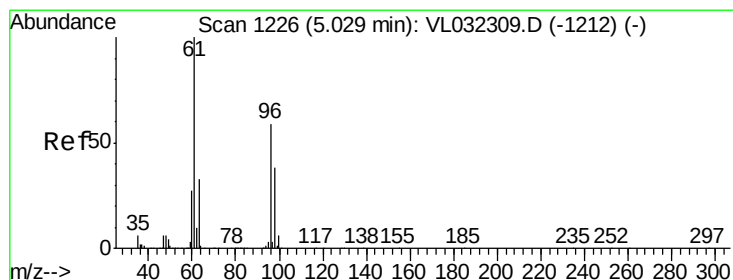
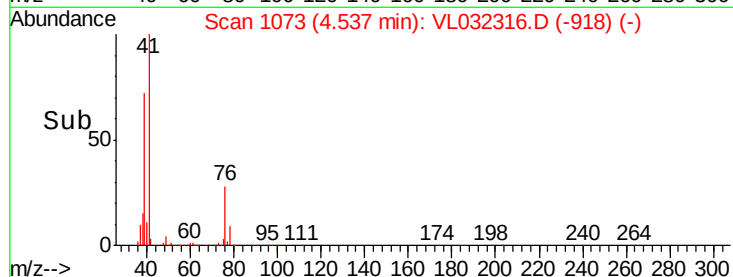
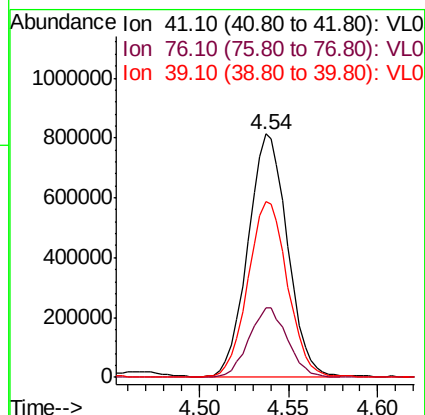
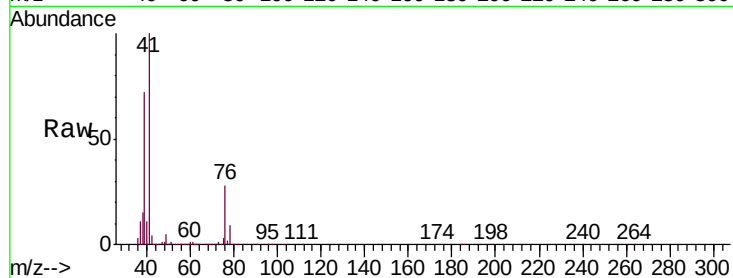
#21
Allvl Chloride
Concen: 10.08 ppbv
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion: 41 Resp: 1255942
Ion Ratio Lower Upper
41 100
76 28.0 23.1 34.7
39 72.6 58.2 87.2

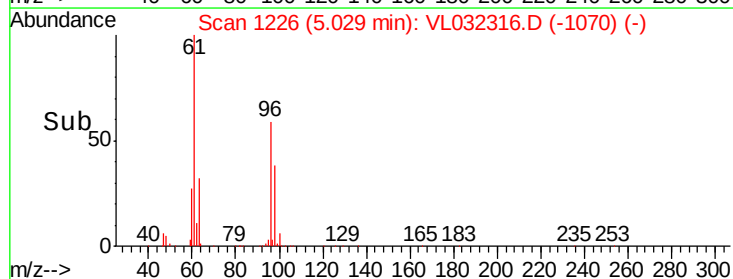
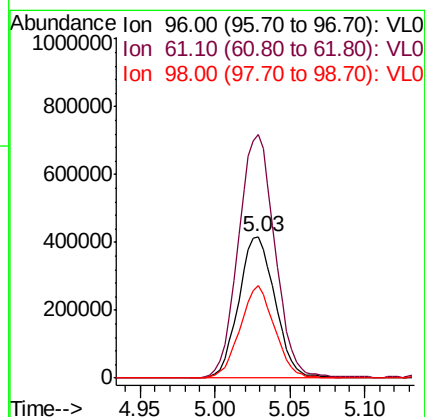
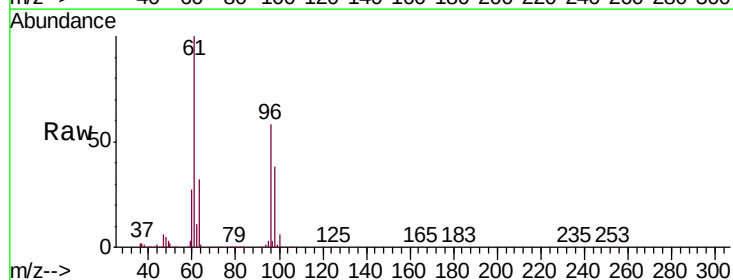
Manual Integrations
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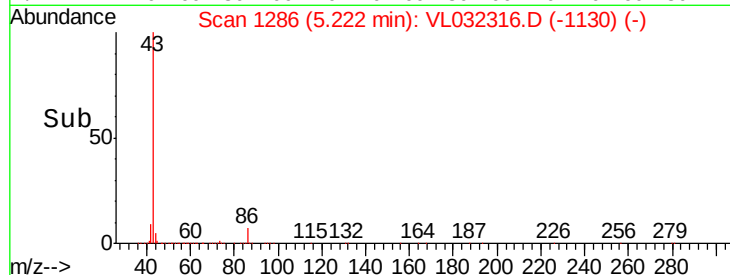
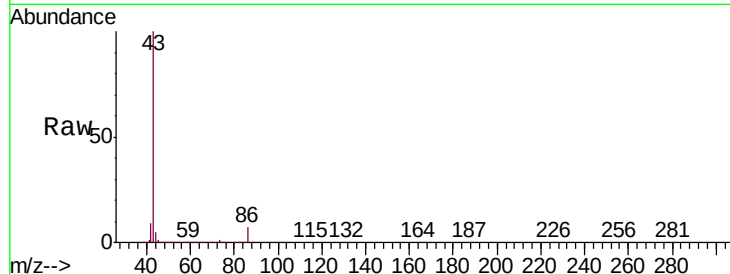
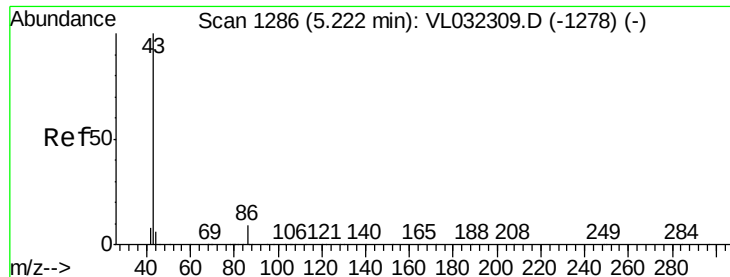
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.35 ppbv
RT: 5.03 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

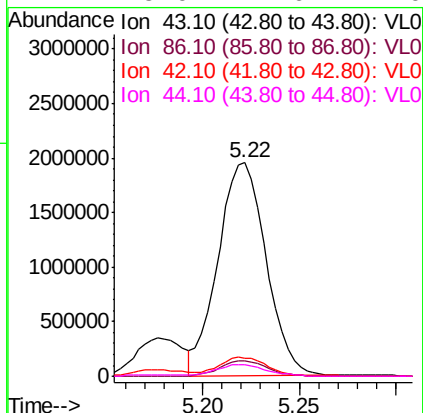
Tgt Ion: 96 Resp: 705882
Ion Ratio Lower Upper
96 100
61 171.7 136.5 204.7
98 65.3 51.3 76.9





#23
 Vinyl Acetate
 Concen: 10.26 ppbv
 RT: 5.22 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

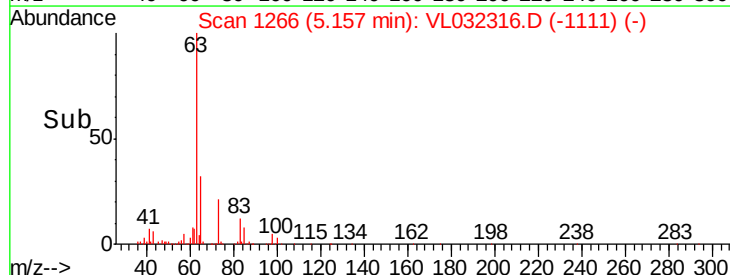
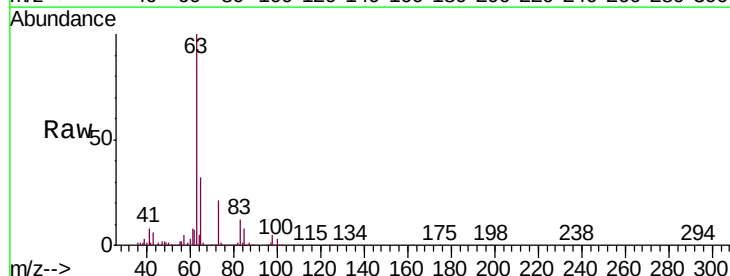
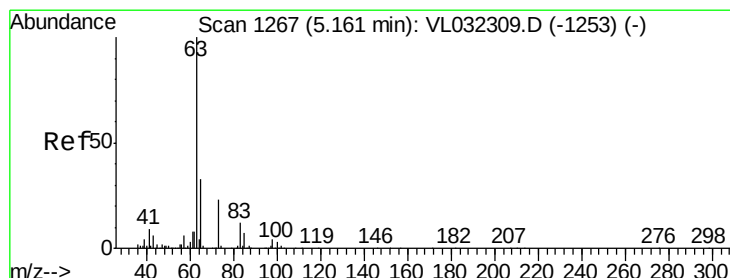
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.3	6.3	9.5	
42	8.6	7.0	10.4	
44	5.0	4.6	7.0	



Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

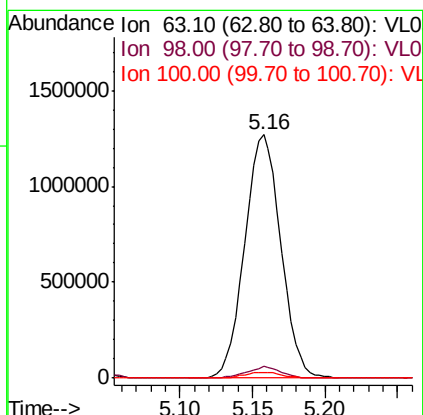
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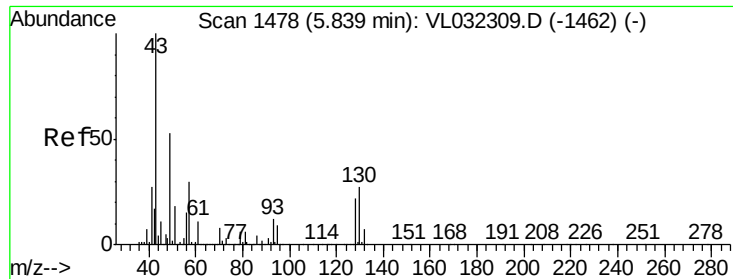
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#24
 1,1-Dichloroethane
 Concen: 9.35 ppbv
 RT: 5.16 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.8	2.1	6.5	
100	2.5	1.3	3.8	





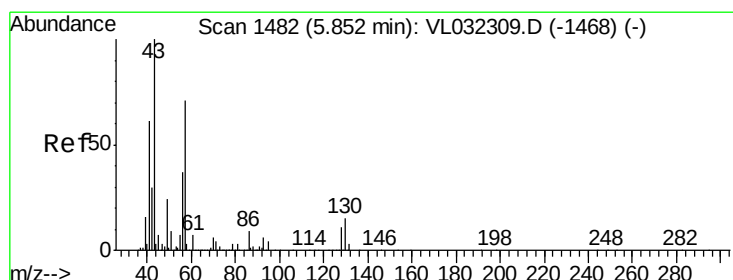
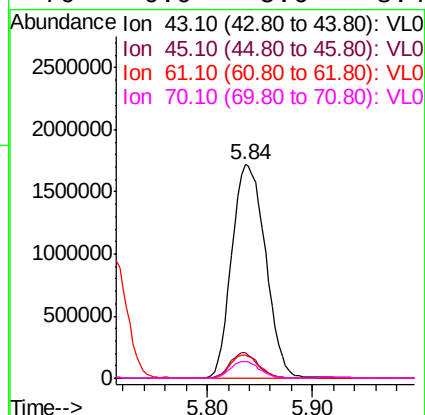
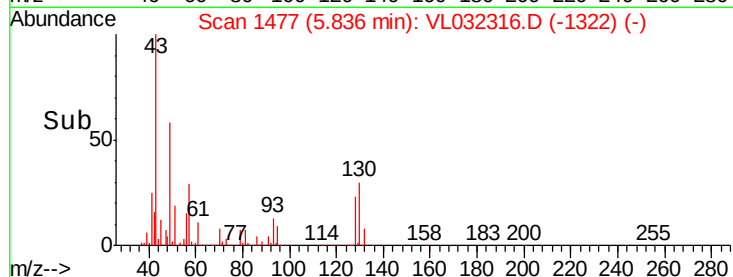
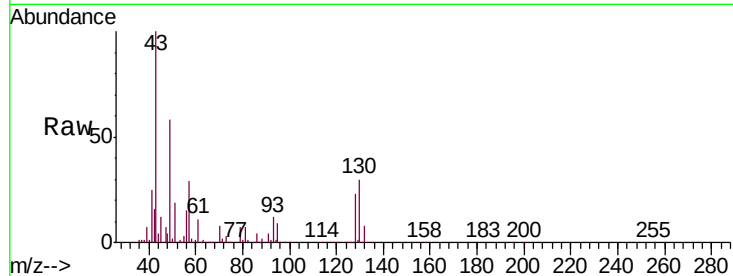
#25
Ethyl Acetate
Concen: 9.30 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampled :
ICVVL072718

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.3	7.4	11.0
70	6.9	5.6	8.4

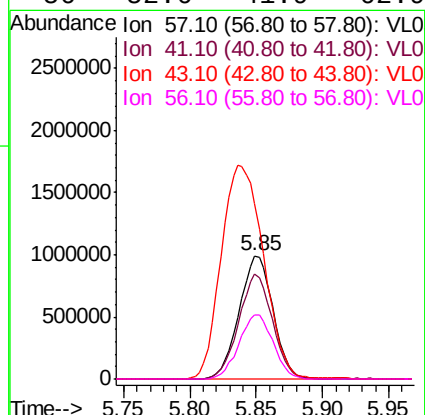
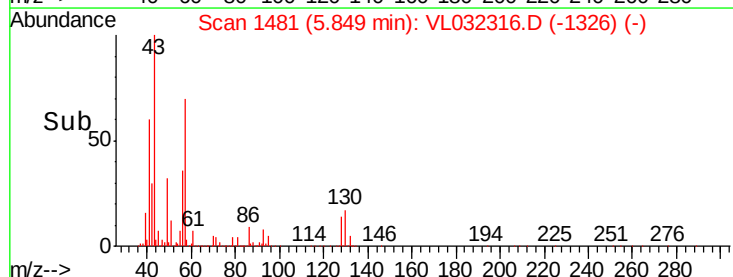
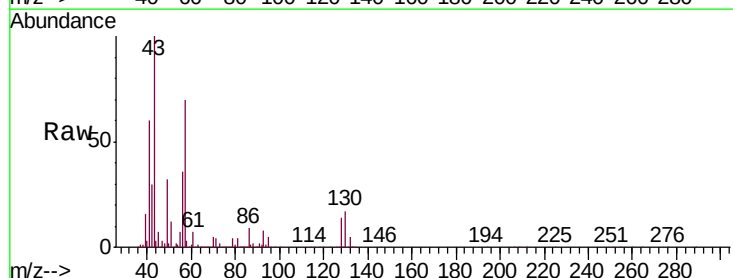
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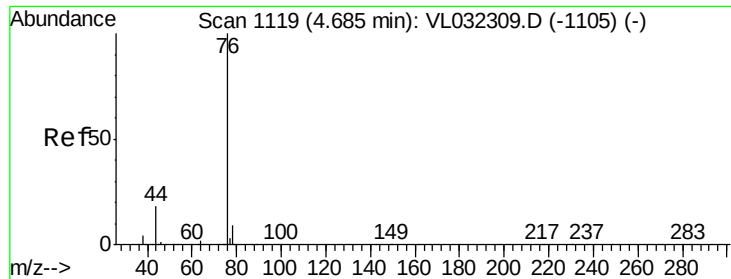
MMDadoda
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#26
Hexane
Concen: 9.46 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.2	68.1	102.1
43	217.7	177.4	266.2
56	52.6	41.9	62.9





#27

Carbon Disulfide

Concen: 10.40 ppbv

RT: 4.68 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 76 Resp: 1753394

Ion Ratio Lower Upper

76 100

44 18.6 14.0 21.0

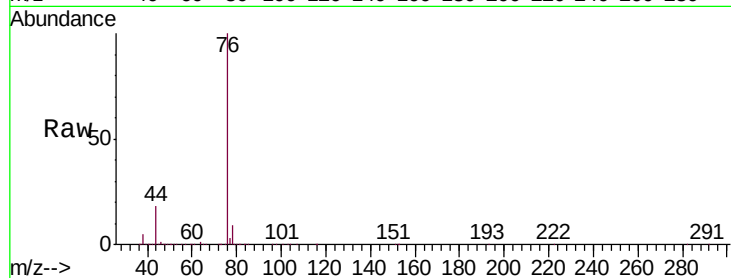
78 9.6 7.5 11.3

Manual Integrations

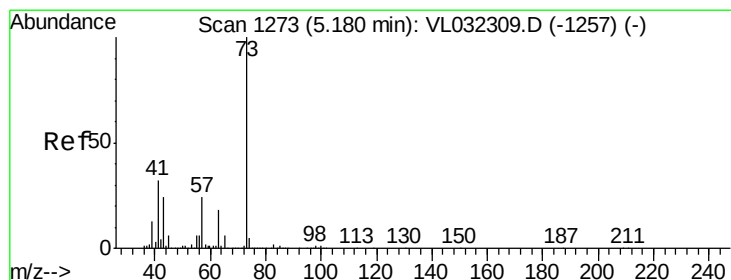
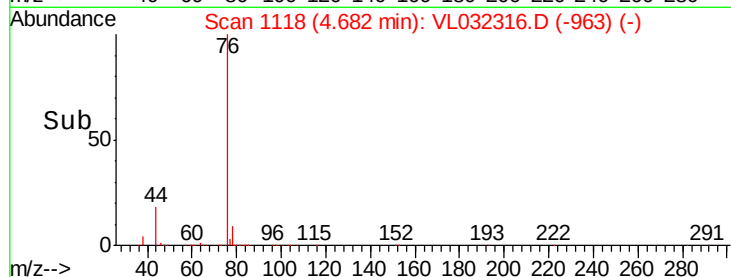
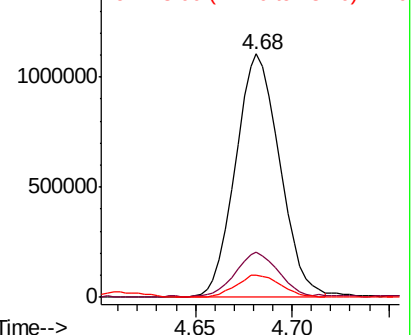
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Abundance Ion 76.00 (75.70 to 76.70): VL0
1500000
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.49 ppbv

RT: 5.18 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VL032316.D

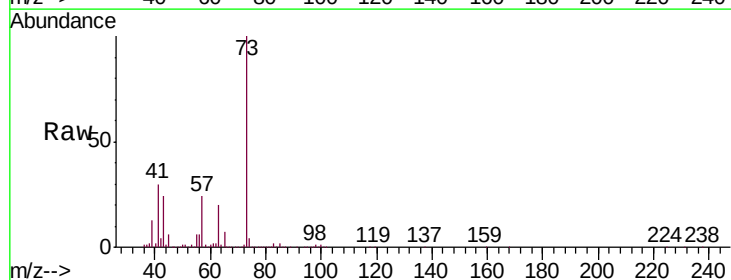
Acq: 27 Jul 2018 11:18

Tgt Ion: 73 Resp: 2631266

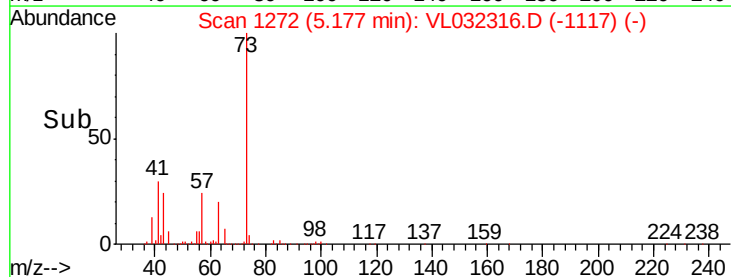
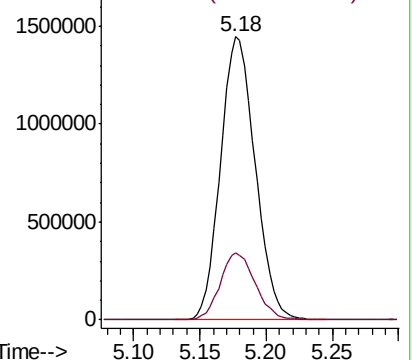
Ion Ratio Lower Upper

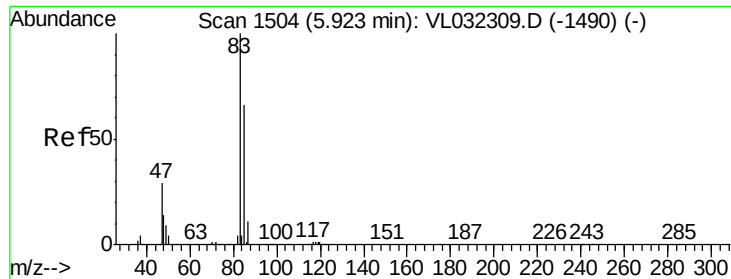
73 100

57 24.0 19.4 29.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
1500000
Ion 57.10 (56.80 to 57.80): VL0





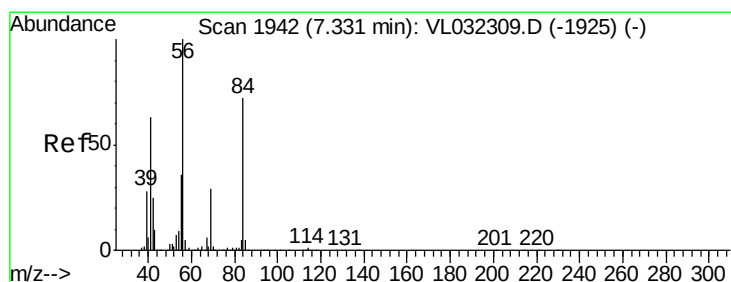
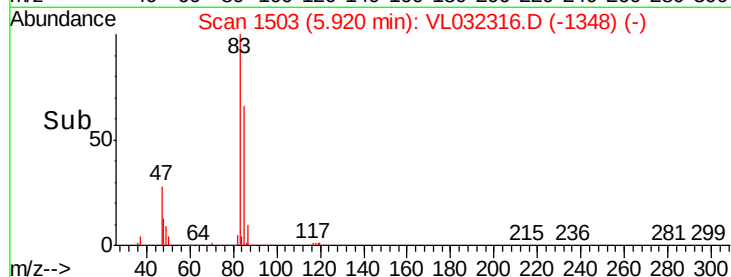
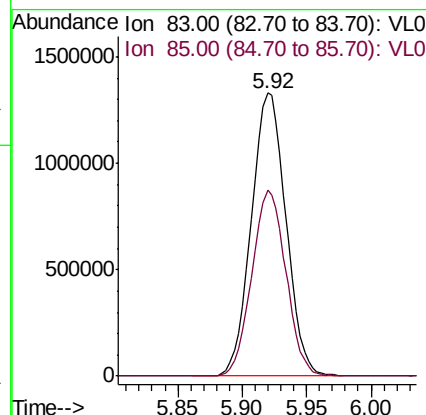
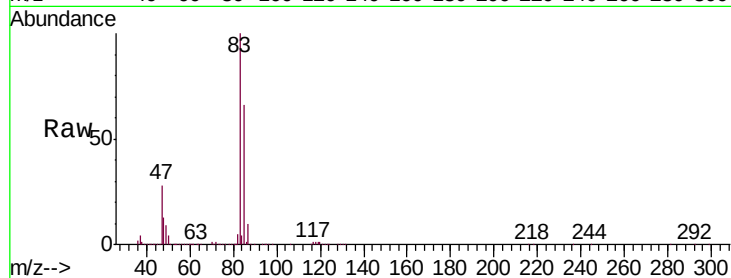
#29
Chloroform
Concen: 9.22 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion: 83 Resp: 2486340
Ion Ratio Lower Upper
83 100
85 65.5 52.9 79.3

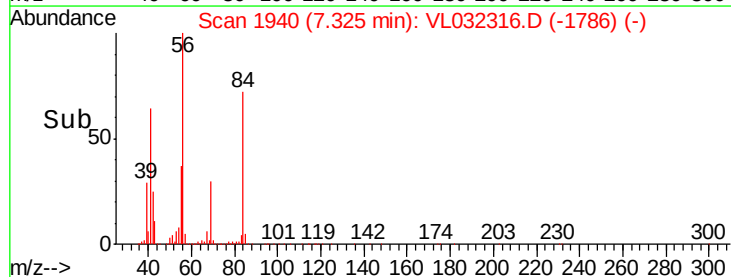
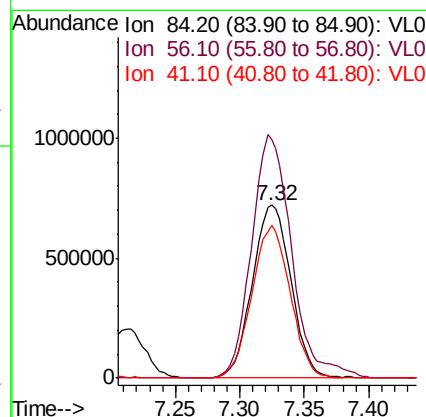
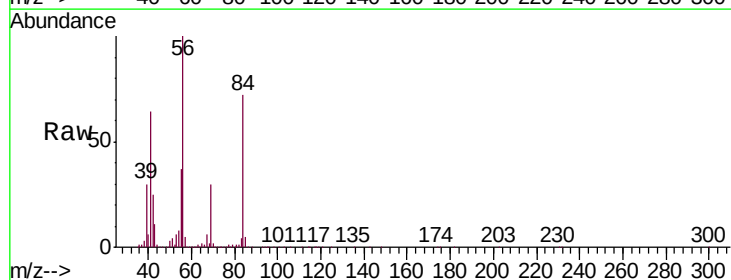
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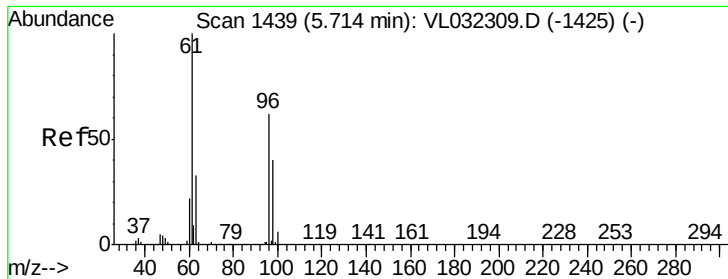
MMDadoda
7/30/2018 11:43:04 AM



#30
Cyclohexane
Concen: 10.44 ppbv
RT: 7.32 min Scan# 1940
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion: 84 Resp: 1510688
Ion Ratio Lower Upper
84 100
56 146.4 116.8 175.2
41 87.1 70.0 105.0





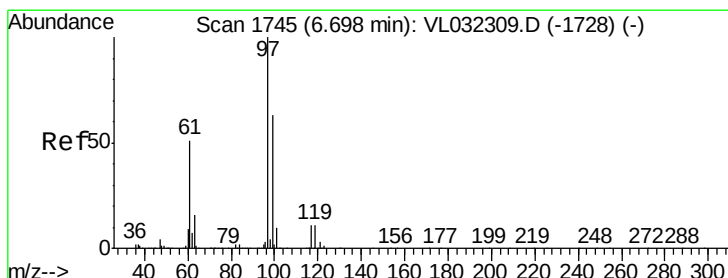
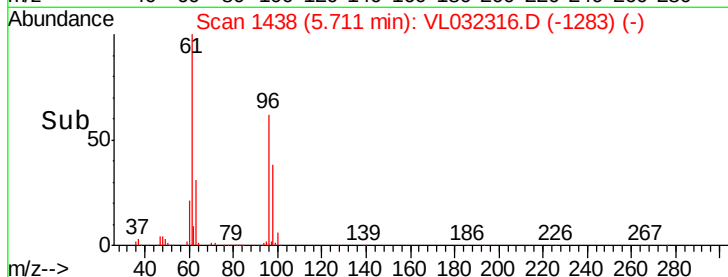
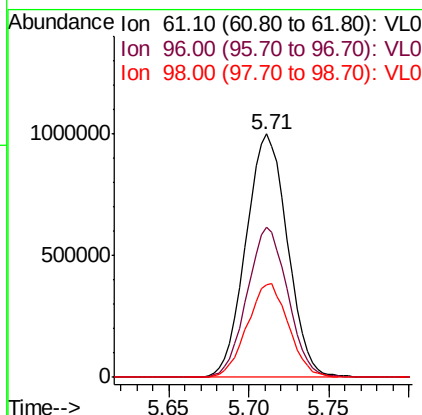
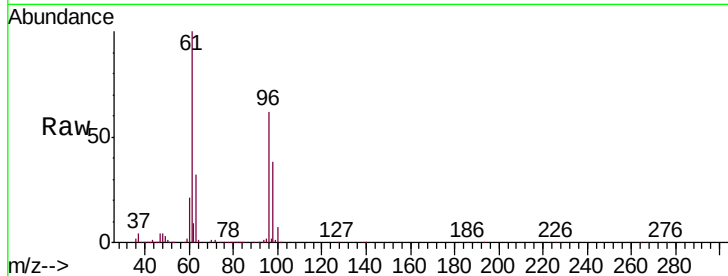
#31
 cis-1,2-Dichloroethene
 Concen: 10.38 ppbv
 RT: 5.71 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.5	49.8	74.6
98	38.2	31.8	47.6

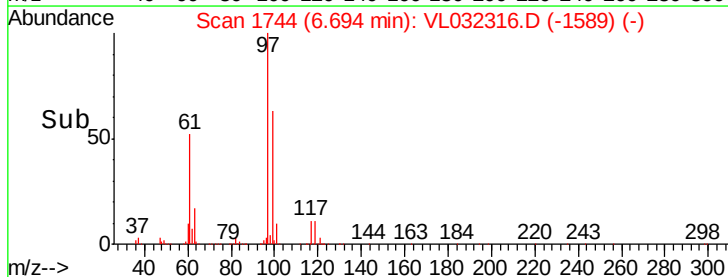
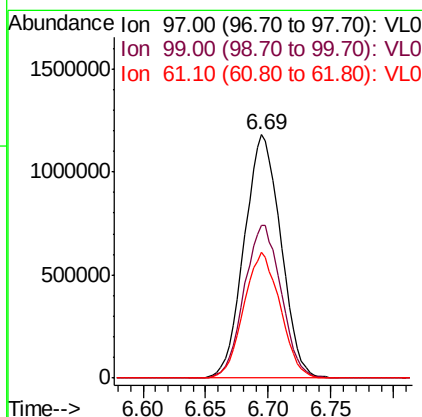
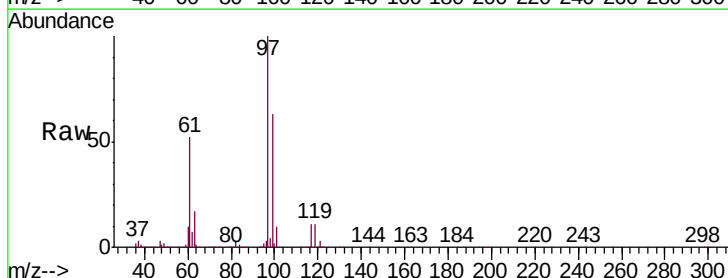
Manual Integrations
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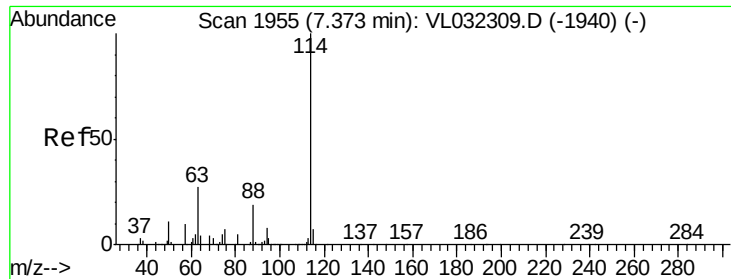
MMDadoda
 7/30/2018 11:43:04 AM



#32
 1,1,1-Trichloroethane
 Concen: 10.03 ppbv
 RT: 6.69 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.9	76.3
61	51.6	41.8	62.6





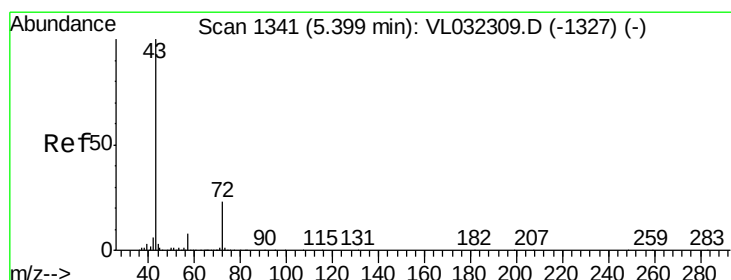
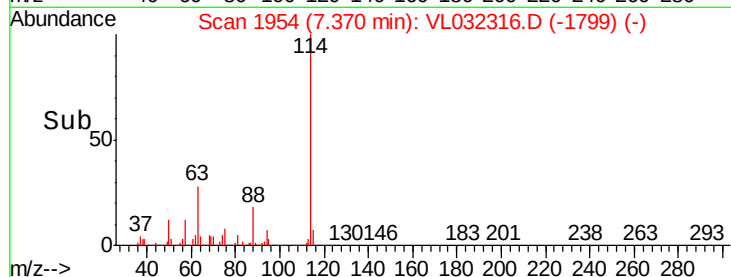
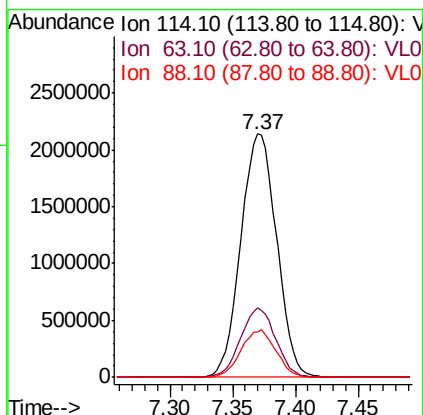
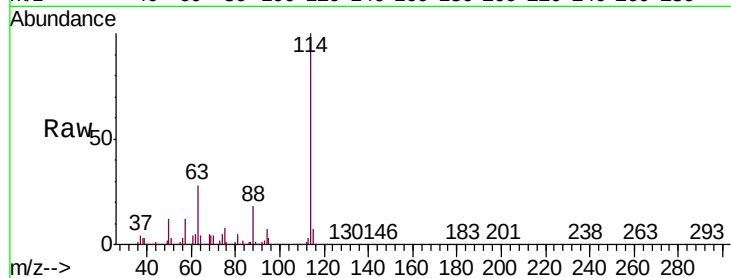
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	22.4	33.6
88	19.0	15.3	22.9

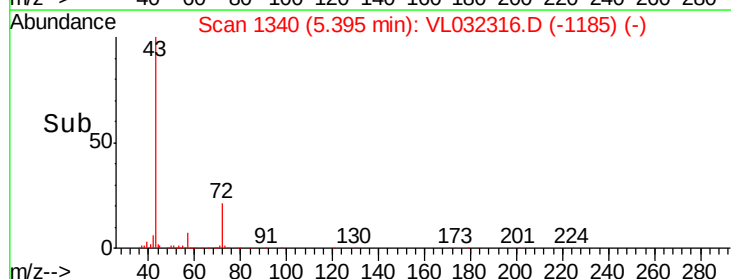
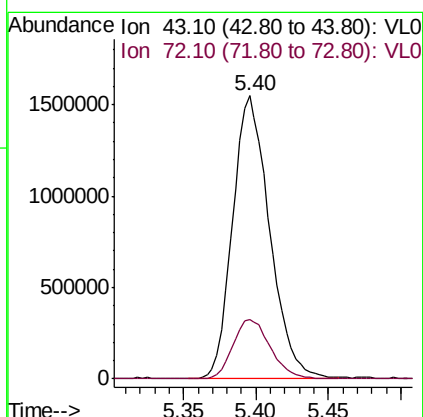
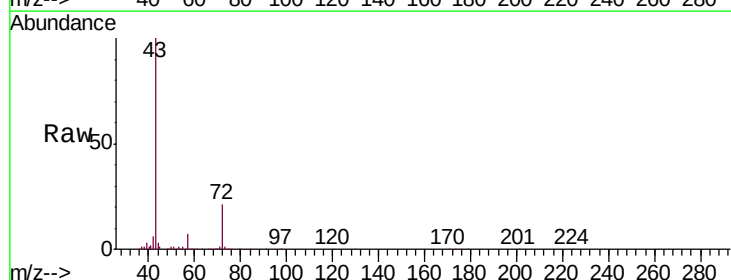
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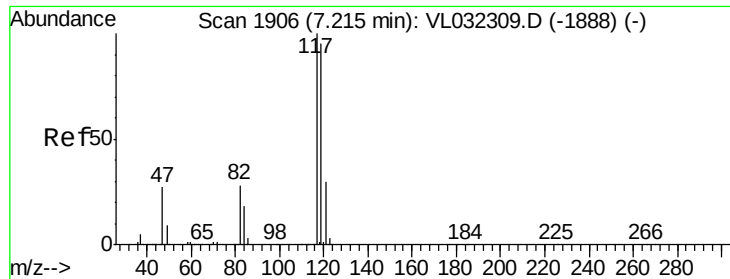
MMDadoda
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#34
 2-Butanone
 Concen: 9.90 ppbv
 RT: 5.40 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.4	26.2





#35

Carbon Tetrachloride

Concen: 10.13 ppbv

RT: 7.21 min Scan# 1905

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

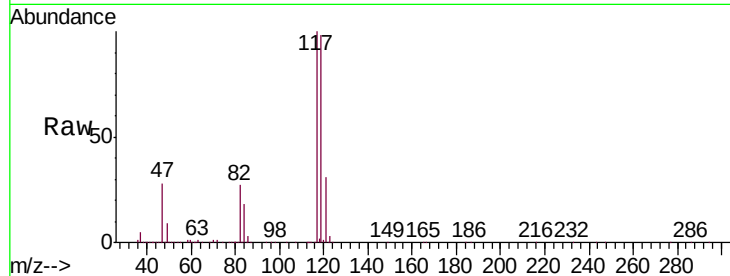
ClientSampleId :

ICVVL072718

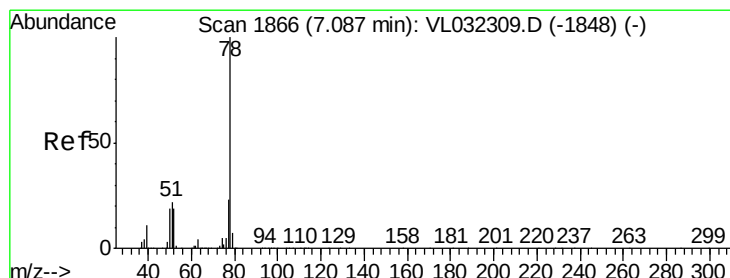
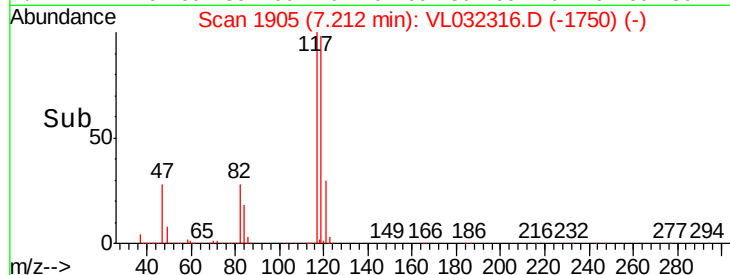
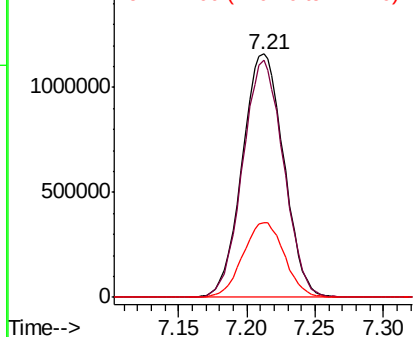
Tot Ion:117 Resp: 2449100
 Ion Ratio Lower Upper
 117 100
 119 97.6 76.1 114.1
 121 30.5 24.4 36.6

Manual Integrations
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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: 9.98 ppbv

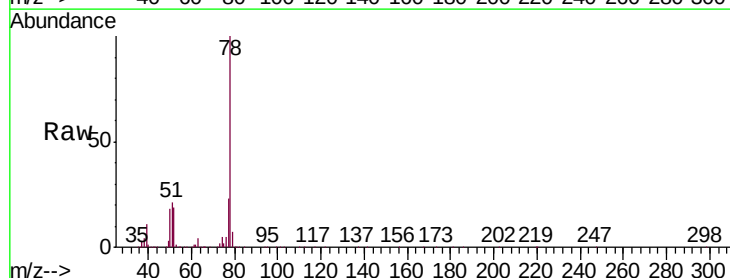
RT: 7.08 min Scan# 1865

Delta R.T. -0.00 min

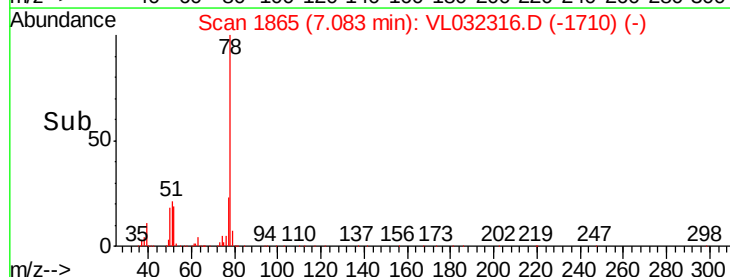
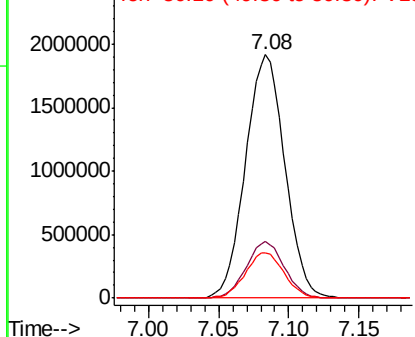
Lab File: VL032316.D

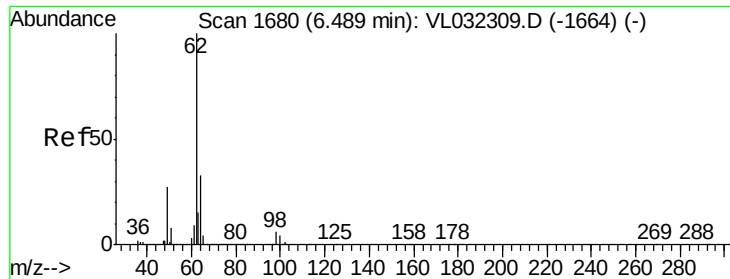
Acq: 27 Jul 2018 11:18

Tgt Ion: 78 Resp: 3744593
 Ion Ratio Lower Upper
 78 100
 77 23.1 18.4 27.6
 50 18.4 15.3 22.9



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





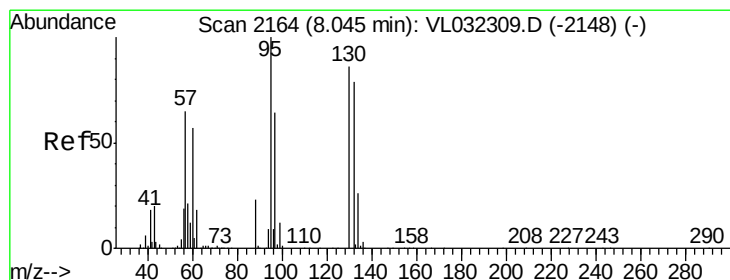
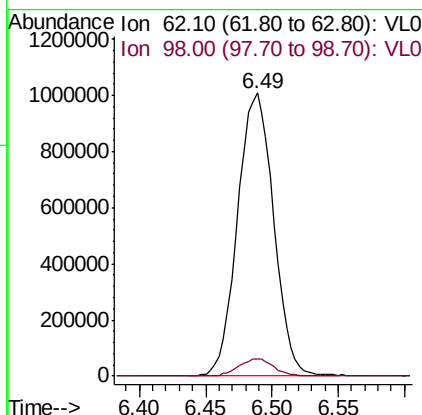
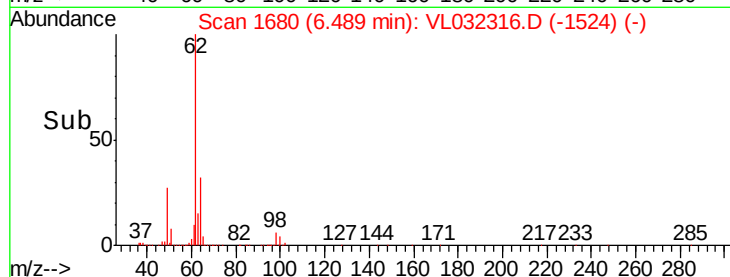
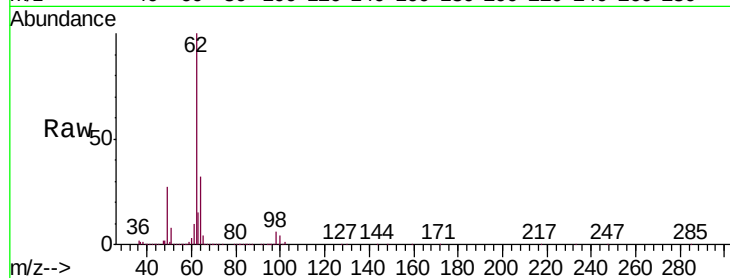
#37
 1,2-Dichloroethane
 Concen: 8.80 ppbv
 RT: 6.49 min Scan# 1680
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.1	7.7

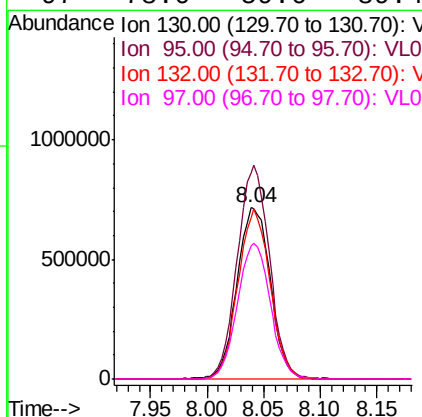
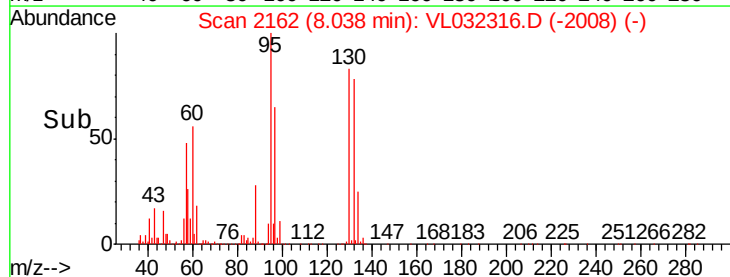
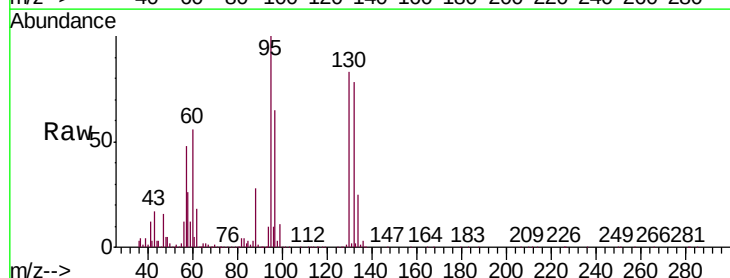
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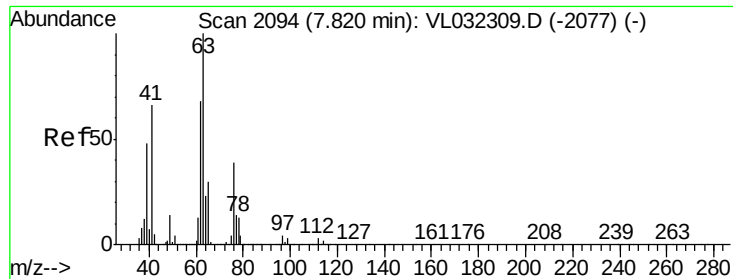
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 7/30/2018 11:43:04 AM



#38
 Trichloroethene
 Concen: 10.10 ppbv
 RT: 8.04 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.3	92.9	139.3
132	94.1	73.0	109.4
97	78.0	59.6	89.4





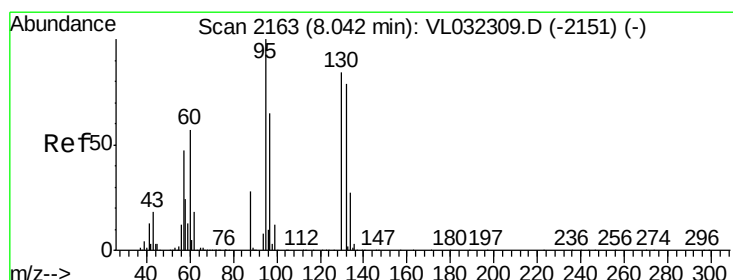
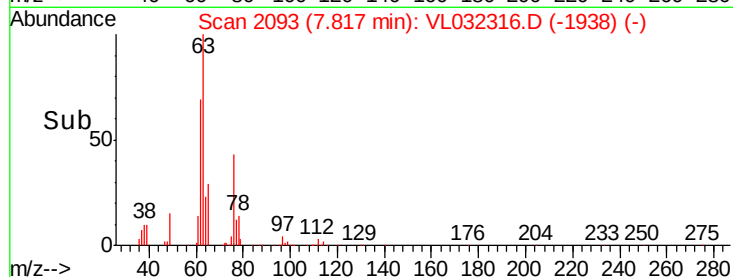
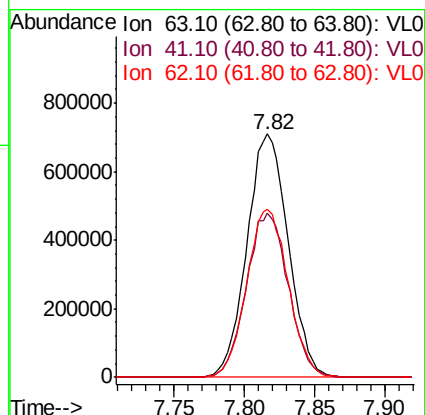
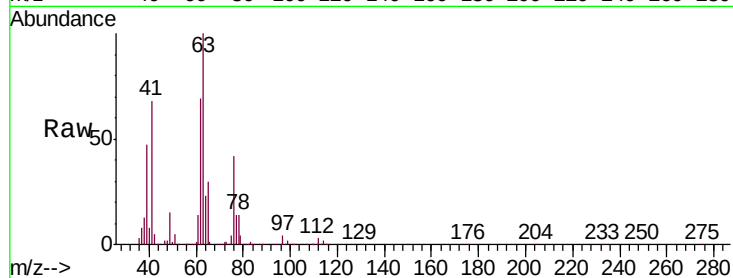
#39
 1,2-Dichloropropane
 Concen: 7.71 ppbv
 RT: 7.82 min Scan# 2093
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.6	52.5	78.7
62	69.1	54.6	81.8

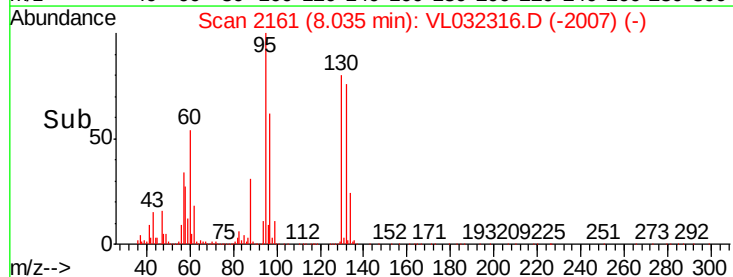
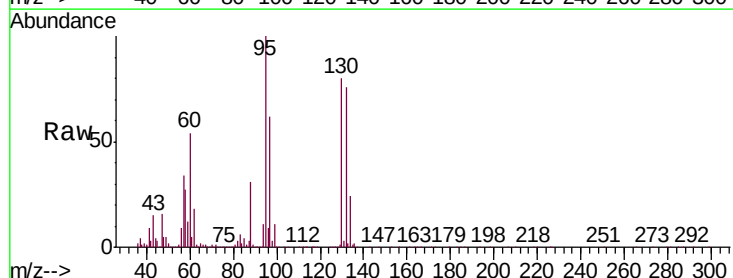
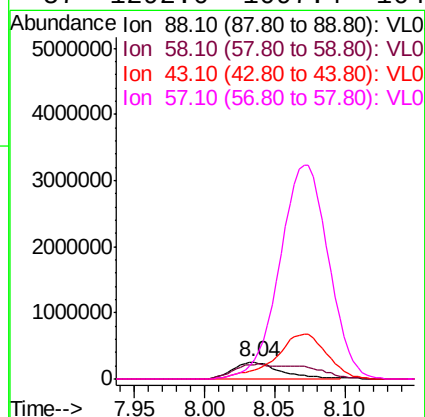
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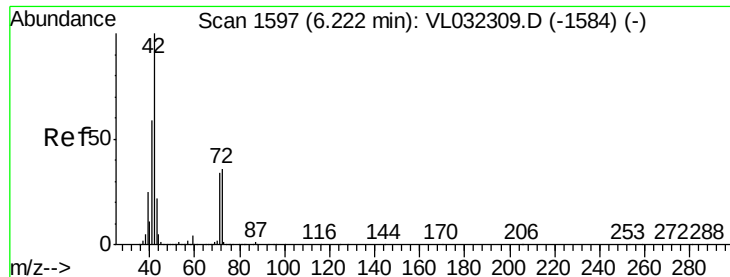
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#40
 1,4-Dioxane
 Concen: 10.92 ppbv
 RT: 8.04 min Scan# 2161
 Delta R.T. -0.01 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
88	100		
58	144.9	120.5	180.7
43	289.3	246.2	369.2
57	1292.0	1097.4	1646.2





#41

Tetrahydrofuran

Concen: 10.83 ppbv

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

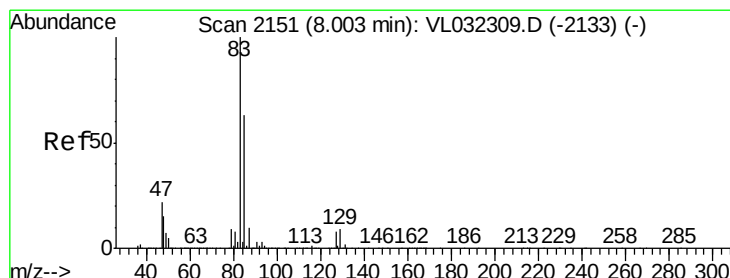
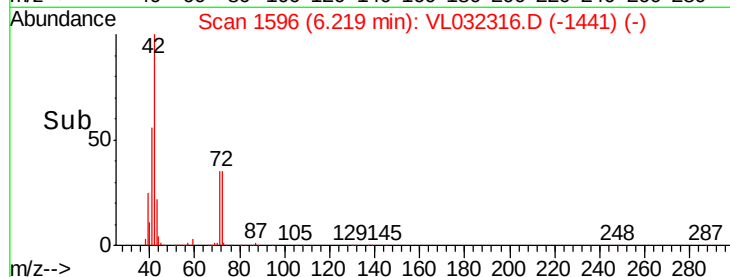
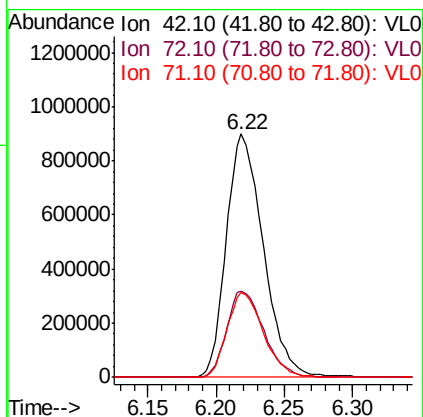
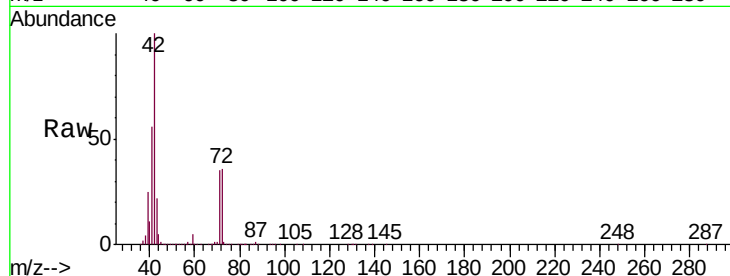
ClientSampleId :

ICVVL072718

Tot Ion:	42	Resp:	1687817
Ion	Ratio	Lower	Upper
42	100		
72	35.8	28.6	42.8
71	34.8	27.8	41.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.73 ppbv

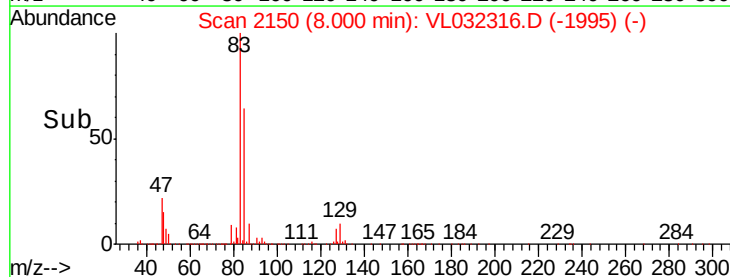
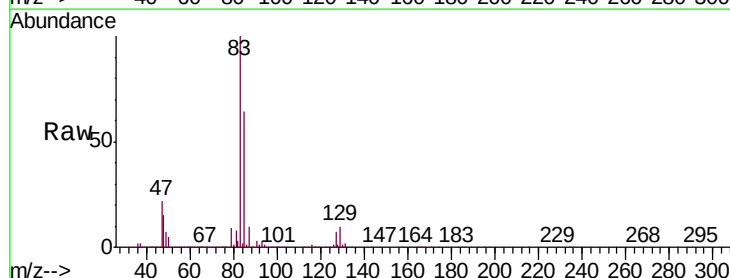
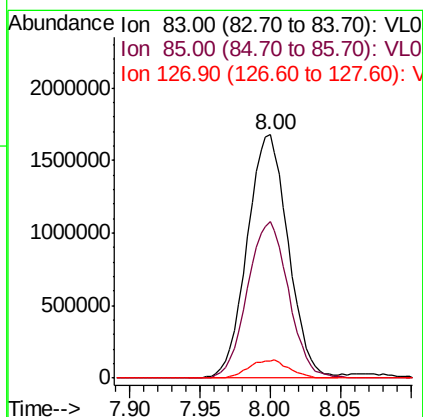
RT: 8.00 min Scan# 2150

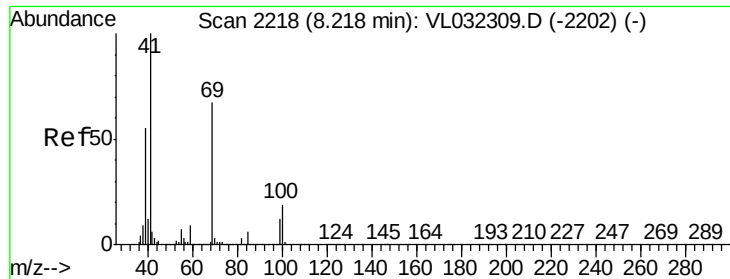
Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion:	83	Resp:	3414558
Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.7	76.1
127	7.1	6.0	9.0





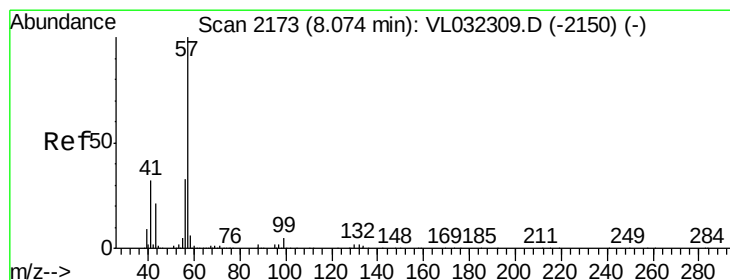
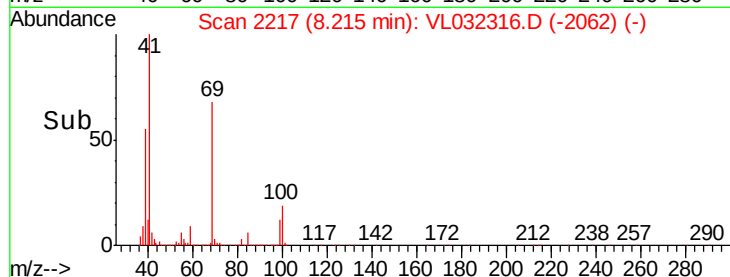
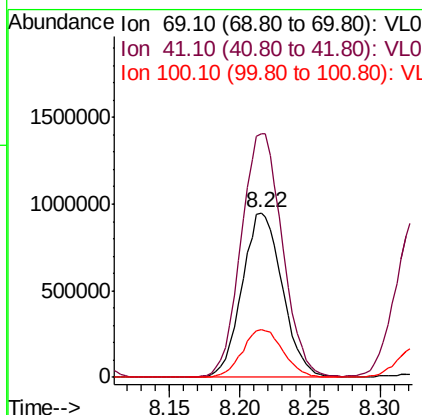
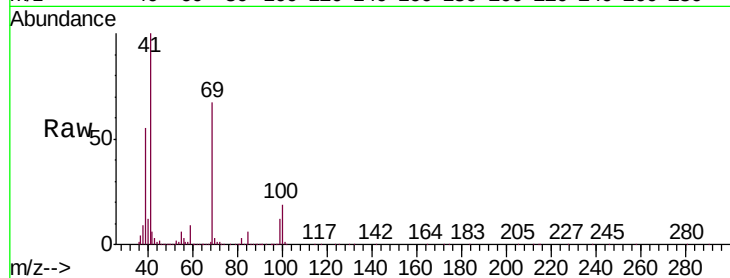
#43
Methyl Methacrylate
Concen: 10.54 ppbv
RT: 8.22 min Scan# 2217
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	151.6	120.6	180.8	
100	29.2	23.2	34.8	

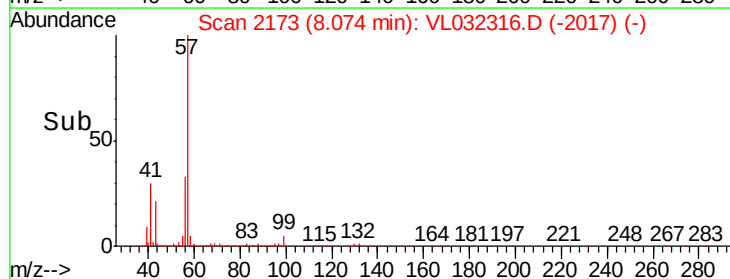
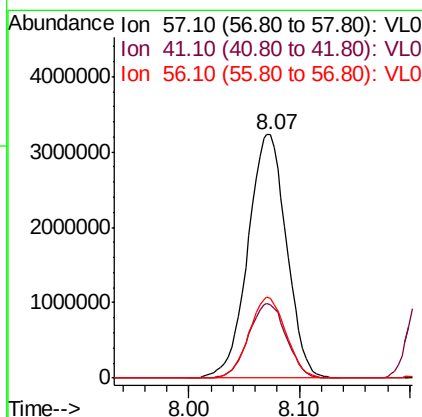
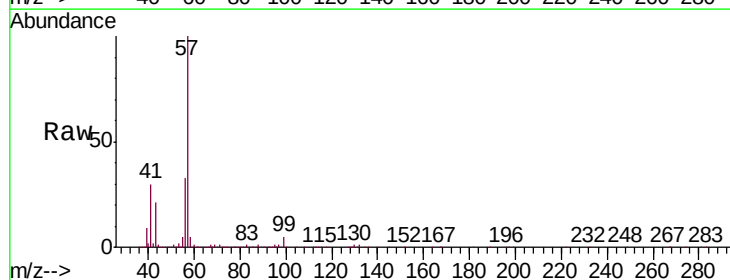
Manual Integrations
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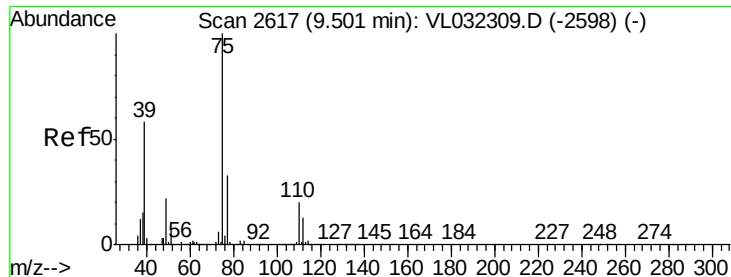
MMDadoda
7/30/2018 11:43:04 AM



#44
2,2,4-Trimethylpentane
Concen: 9.58 ppbv
RT: 8.07 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	30.2	24.3	36.5	
56	31.9	25.4	38.2	





#45

t-1,3-Dichloropropene

Concen: 11.21 ppbv

RT: 9.50 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 75 Resp: 2339820

Ion Ratio Lower Upper

75 100

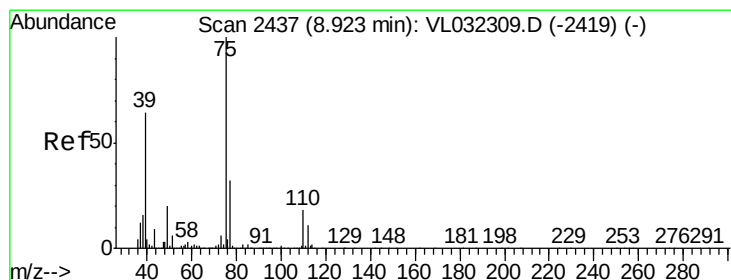
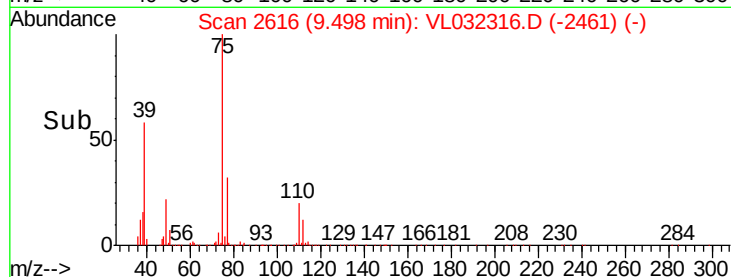
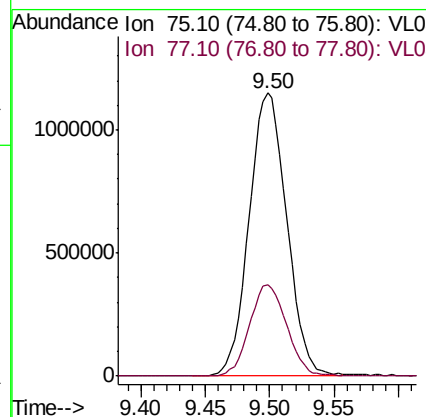
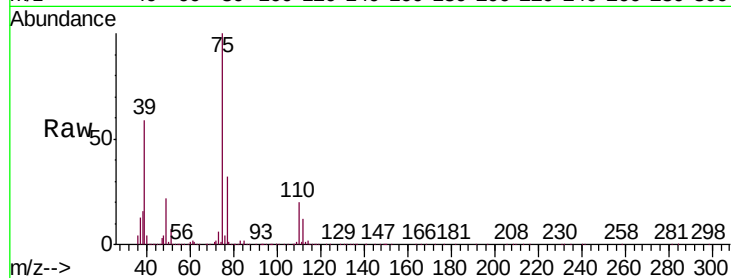
77 32.5 26.2 39.4

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#46

cis-1,3-Dichloropropene

Concen: 10.84 ppbv

RT: 8.92 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

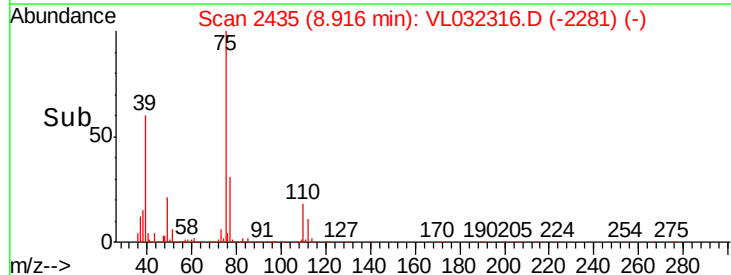
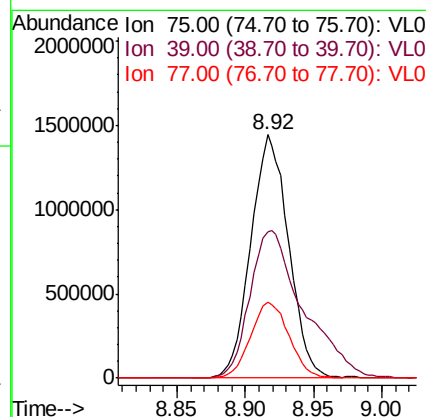
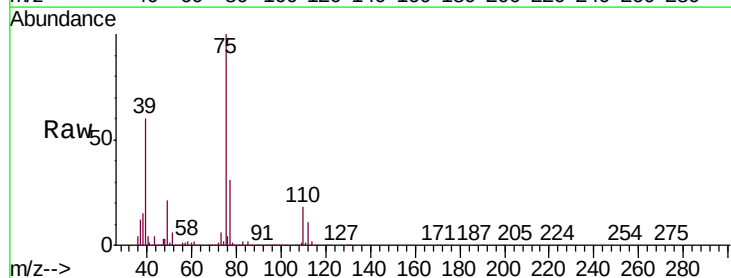
Tgt Ion: 75 Resp: 2772299

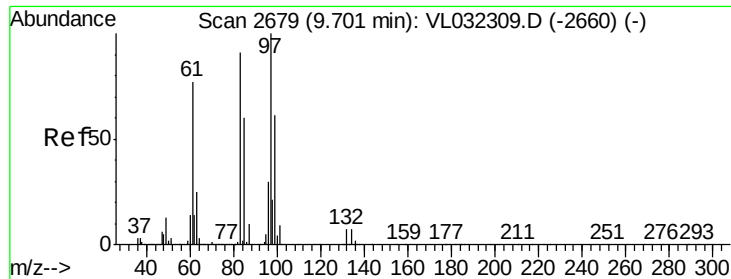
Ion Ratio Lower Upper

75 100

39 59.9 50.9 76.3

77 31.0 25.7 38.5





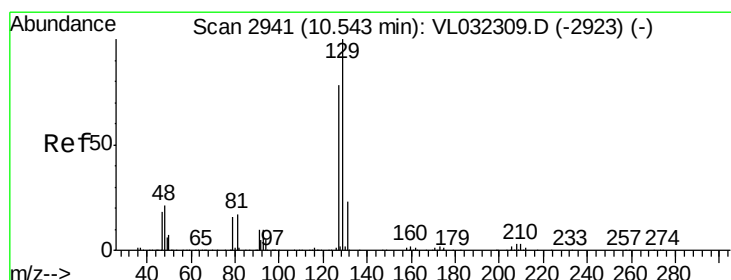
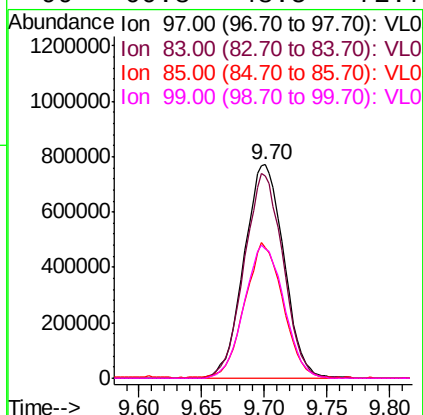
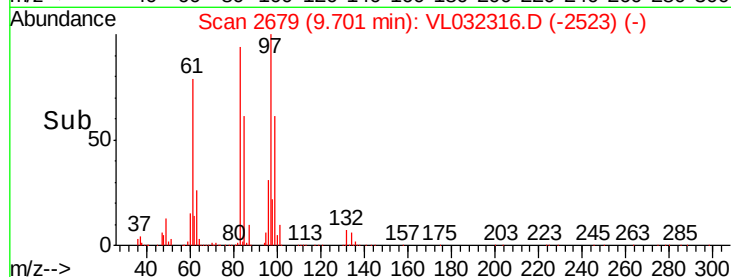
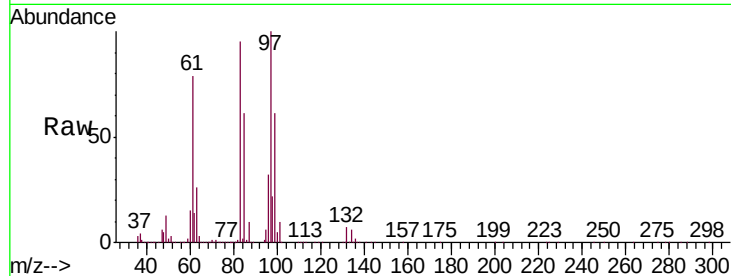
#47
 1,1,2-Trichloroethane
 Concen: 9.25 ppbv
 RT: 9.70 min Scan# 2679
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	94.6	73.0	109.6	
85	60.8	48.1	72.1	
99	60.8	48.5	72.7	

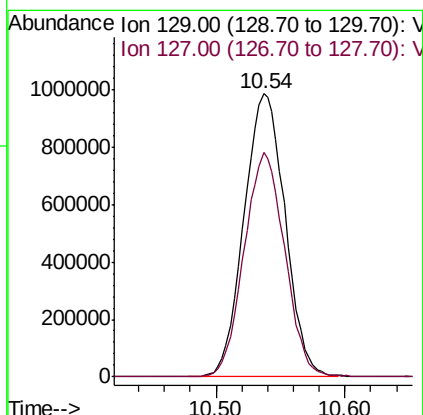
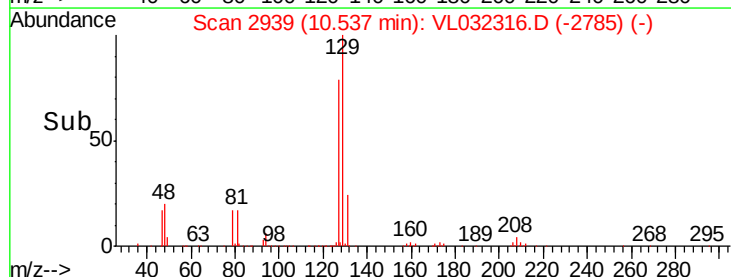
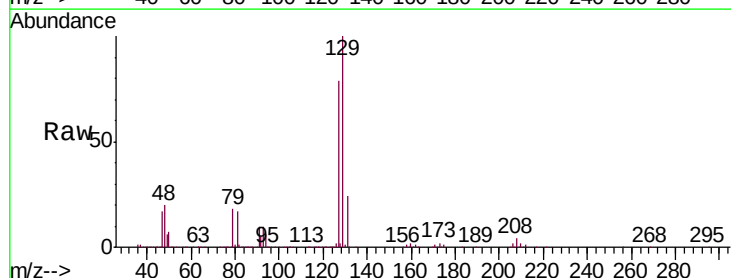
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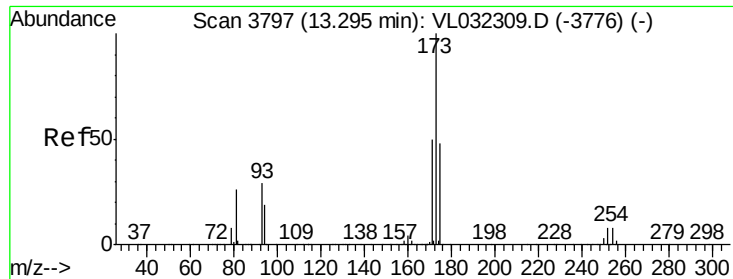
MMDadoda
 7/30/2018 11:43:04 AM



#48
 Dibromochloromethane
 Concen: 8.10 ppbv
 RT: 10.54 min Scan# 2939
 Delta R.T. -0.01 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.5	39.5	118.3	





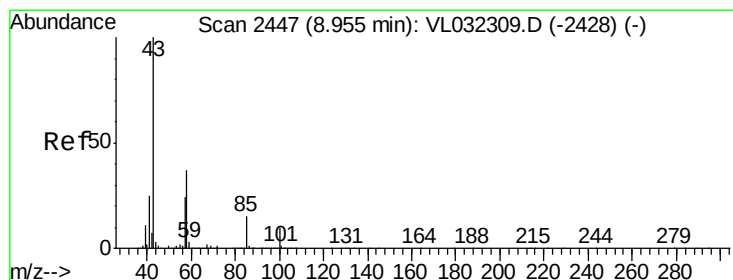
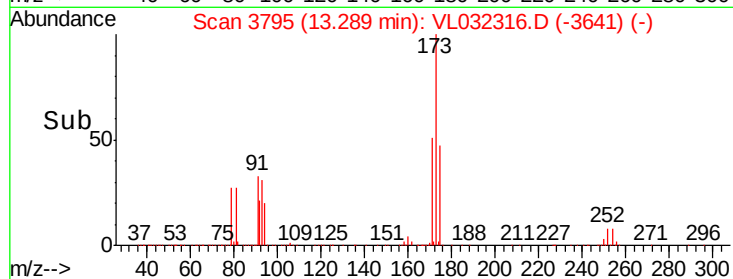
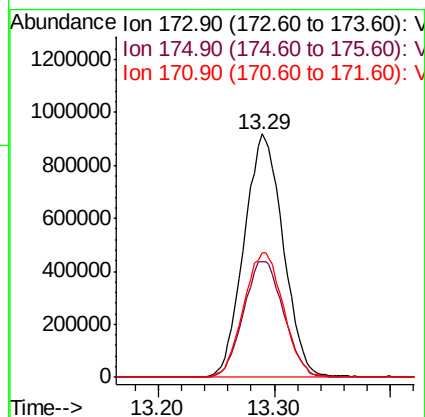
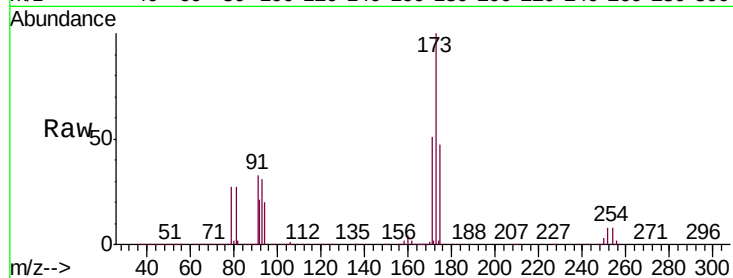
#49
Bromoform
Concen: 9.67 ppbv
RT: 13.29 min Scan# 3795
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion:173 Resp: 2153133
Ion Ratio Lower Upper
173 100
175 49.1 38.9 58.3
171 52.3 42.2 63.2

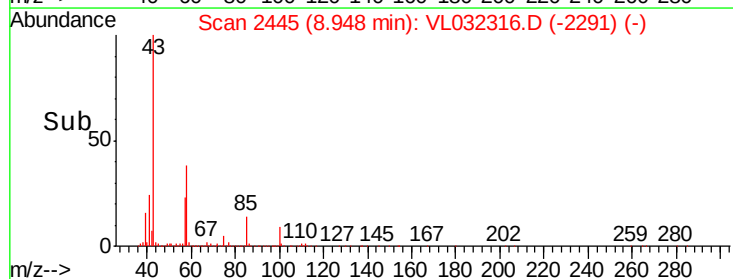
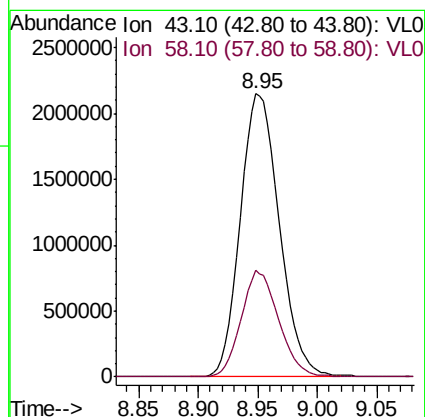
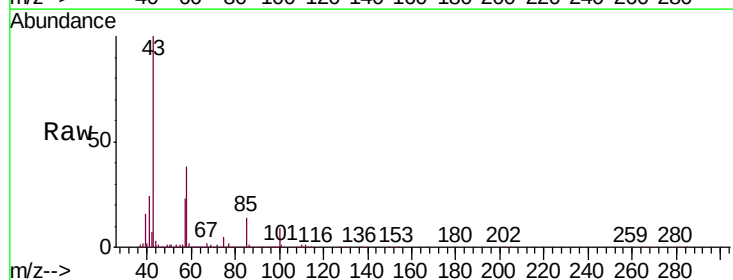
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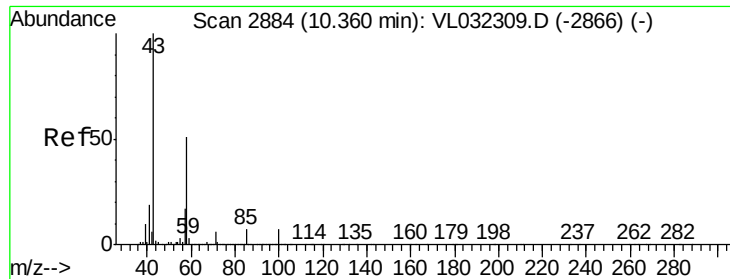
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.03 ppbv
RT: 8.95 min Scan# 2445
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion: 43 Resp: 4877529
Ion Ratio Lower Upper
43 100
58 36.3 28.9 43.3





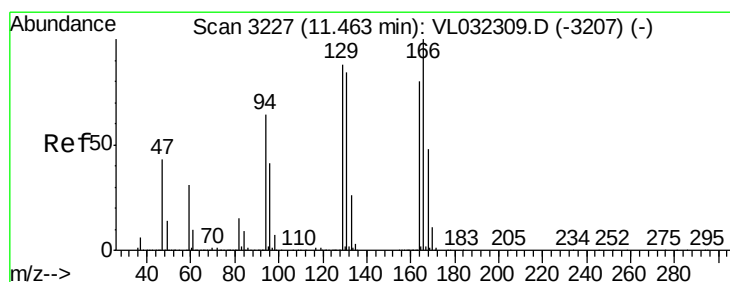
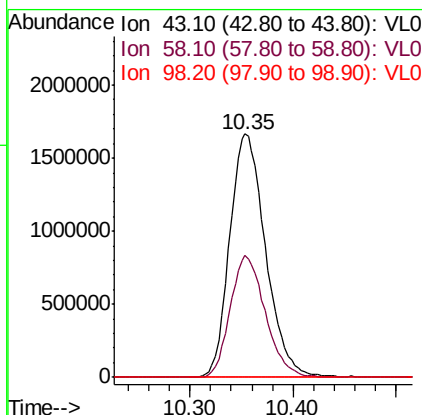
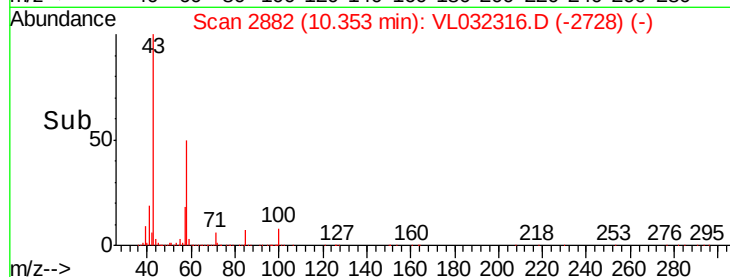
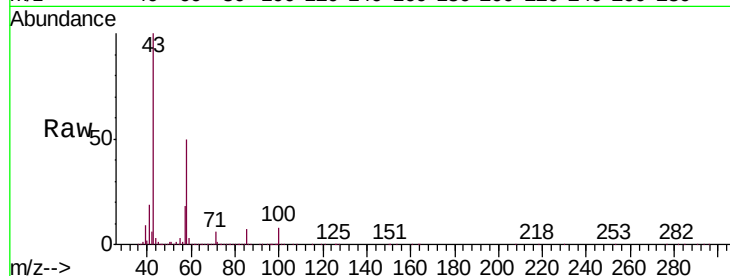
#51
2-Hexanone
Concen: 10.86 ppbv
RT: 10.35 min Scan# 2882
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion: 43 Resp: 4024175
Ion Ratio Lower Upper
43 100
58 49.2 39.1 58.7
98 0.2 0.3 0.5#

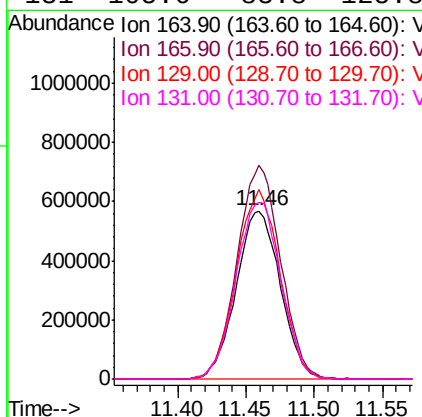
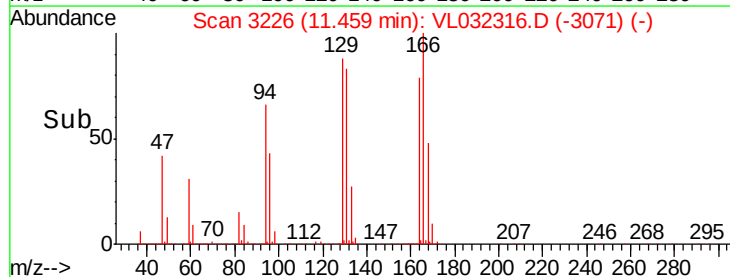
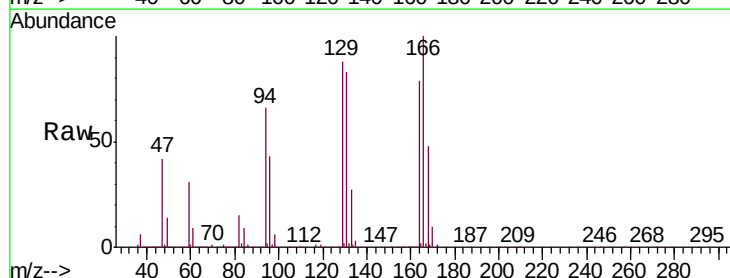
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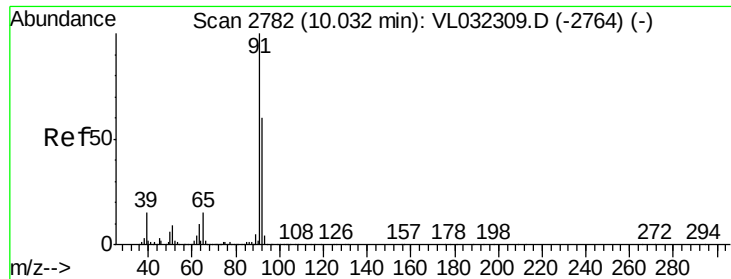
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#52
Tetrachloroethene
Concen: 10.04 ppbv
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion:164 Resp: 1269796
Ion Ratio Lower Upper
164 100
166 127.2 100.0 150.0
129 112.6 87.9 131.9
131 105.6 83.8 125.8





#53

Toluene

Concen: 10.85 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 91 Resp: 4864441

Ion Ratio Lower Upper

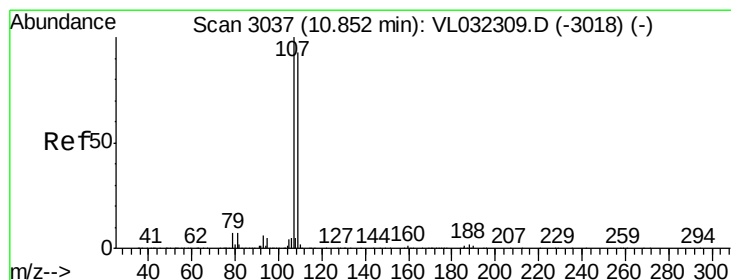
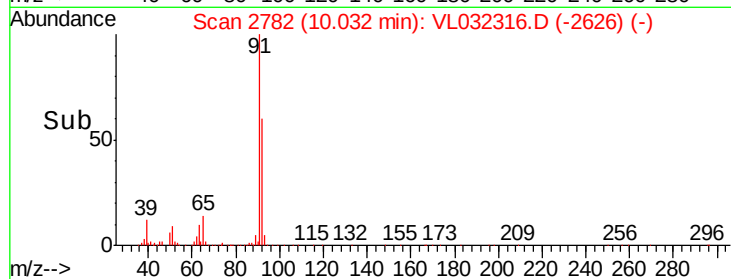
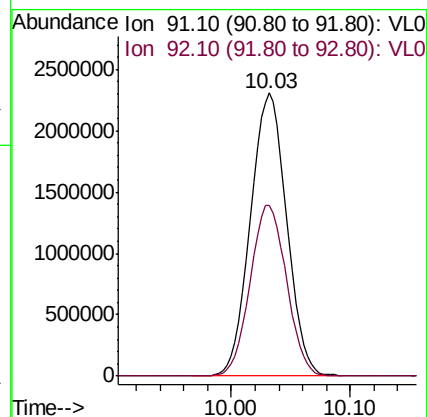
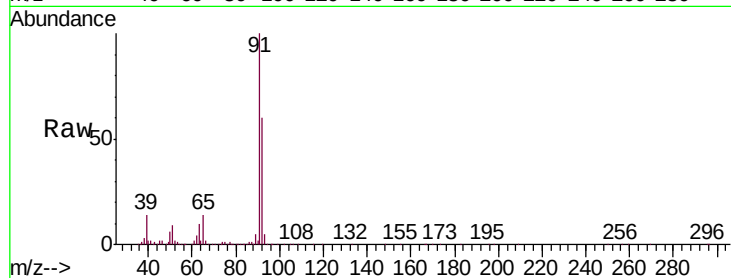
91 100

92 60.7 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 9.70 ppbv

RT: 10.85 min Scan# 3035

Delta R.T. -0.01 min

Lab File: VL032316.D

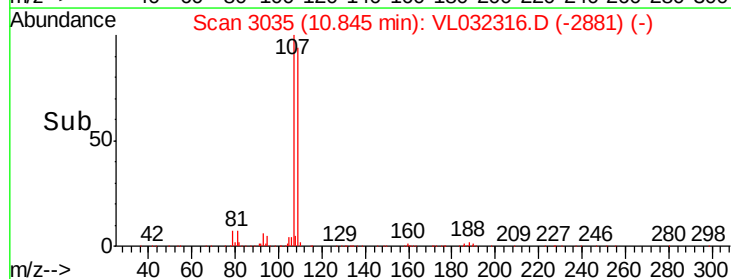
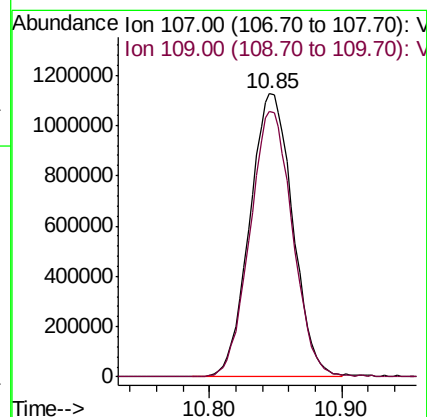
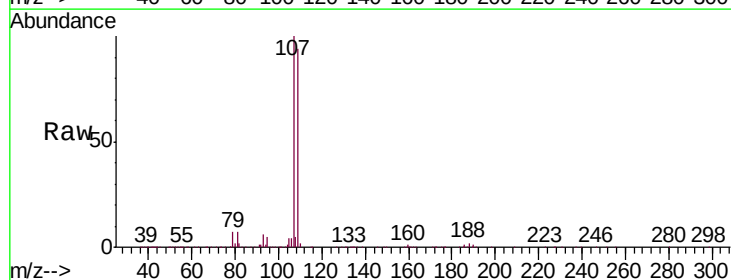
Acq: 27 Jul 2018 11:18

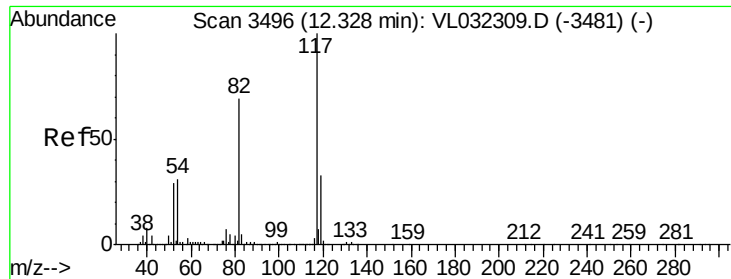
Tgt Ion: 107 Resp: 2528017

Ion Ratio Lower Upper

107 100

109 93.9 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 12.33 min Scan# 3496

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion:117 Resp: 5259838

Ion Ratio Lower Upper

117 100

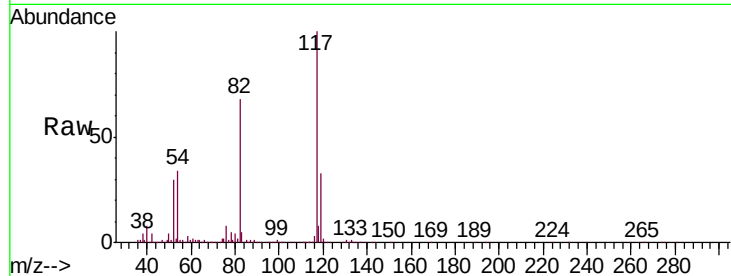
82 66.3 52.6 78.8

119 53.5 25.7 38.5#

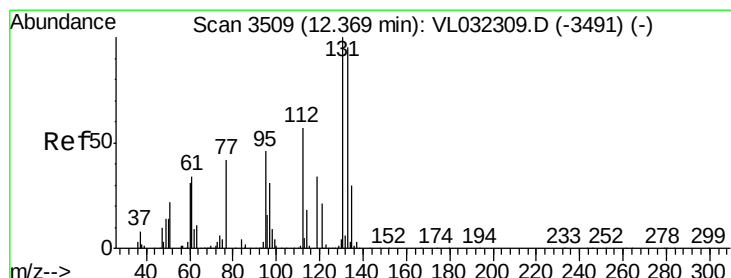
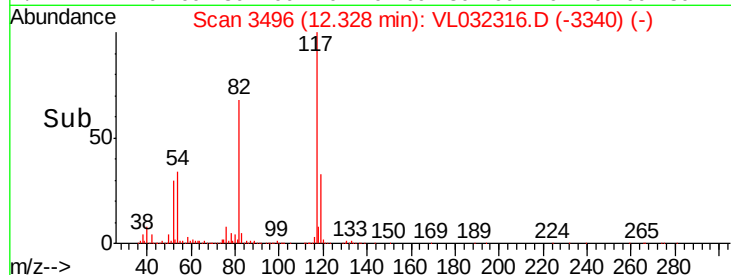
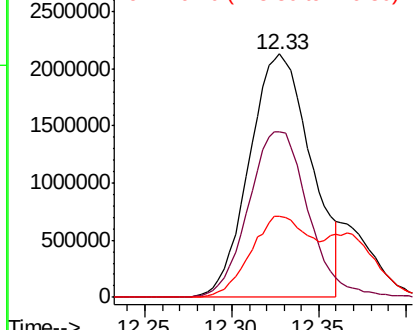
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Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.61 ppbv

RT: 12.37 min Scan# 3508

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

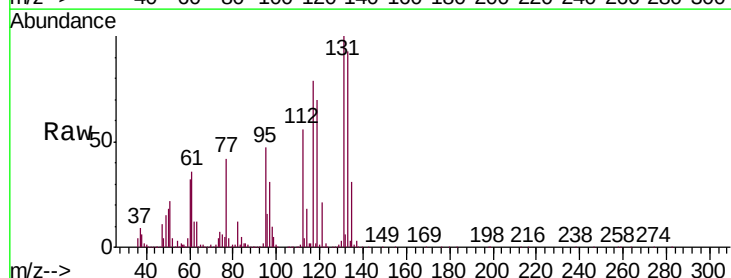
Tgt Ion:131 Resp: 1867353

Ion Ratio Lower Upper

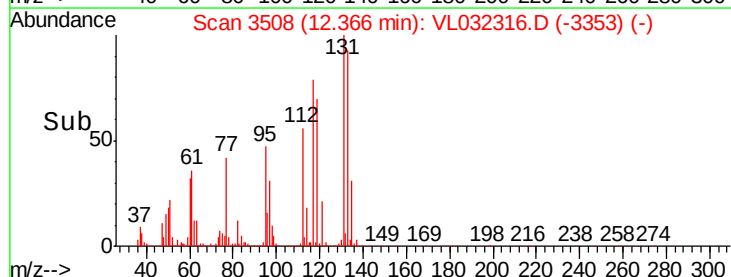
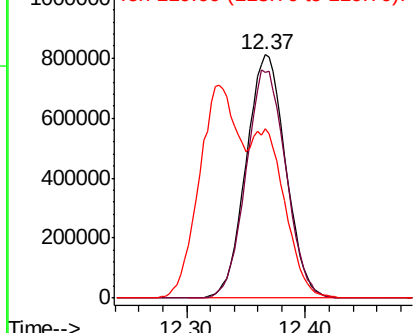
131 100

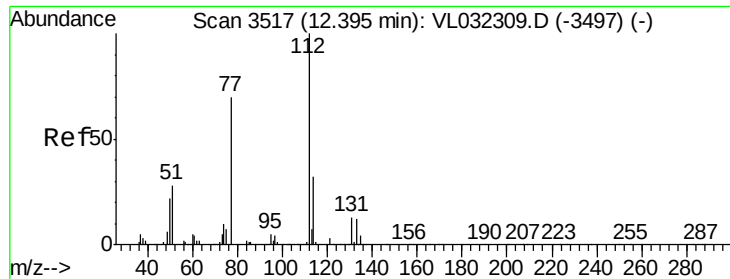
133 94.7 75.8 113.6

119 150.6 48.1 72.1#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





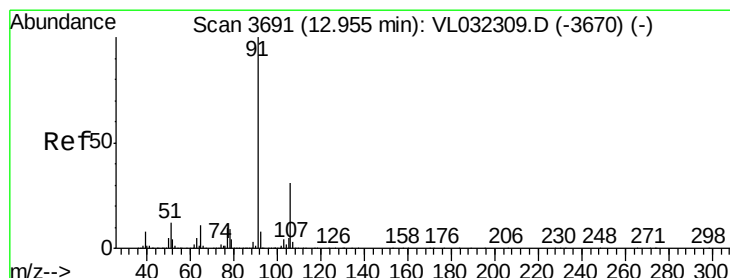
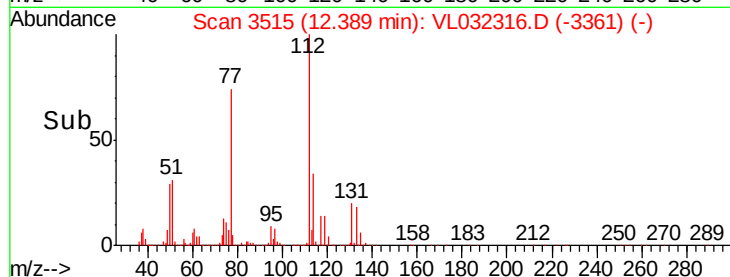
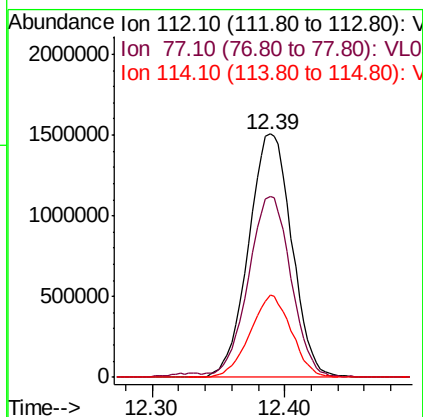
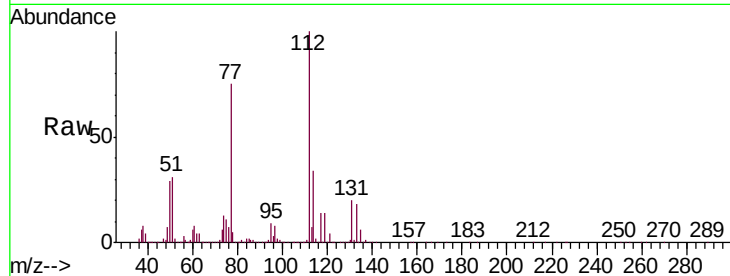
#57
Chlorobenzene
Concen: 8.34 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion	Ratio	Lower	Upper
112	100		
77	74.0	56.5	84.7
114	33.9	28.4	34.7

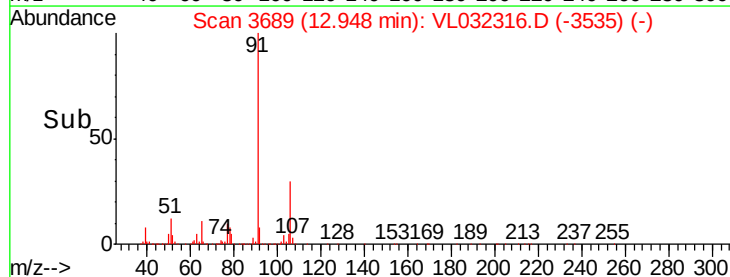
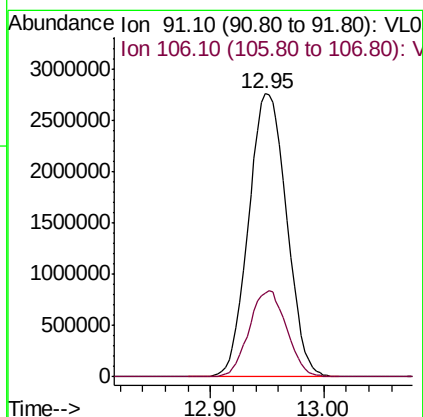
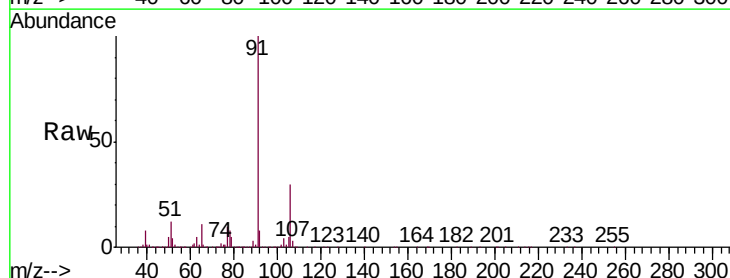
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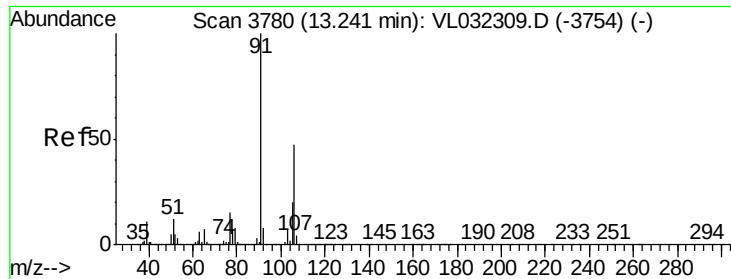
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#58
Ethyl Benzene
Concen: 9.78 ppbv
RT: 12.95 min Scan# 3689
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.0	37.4





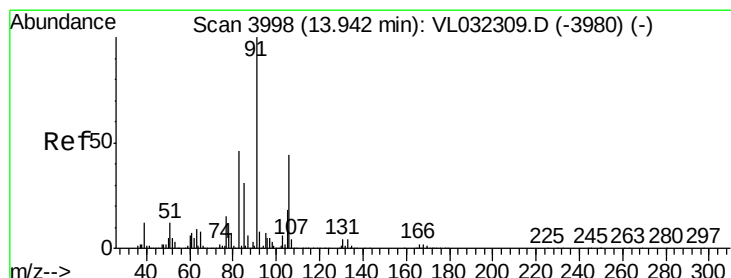
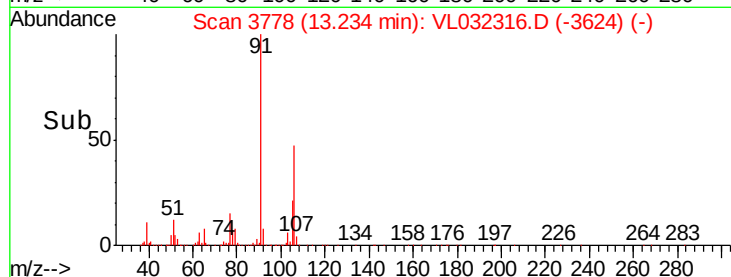
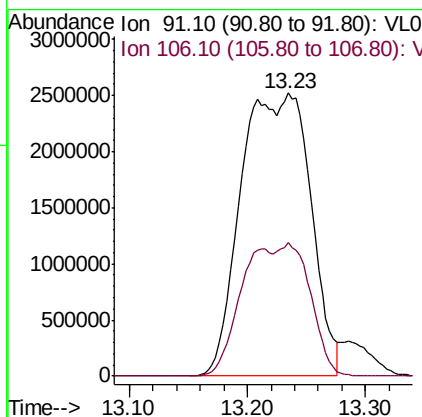
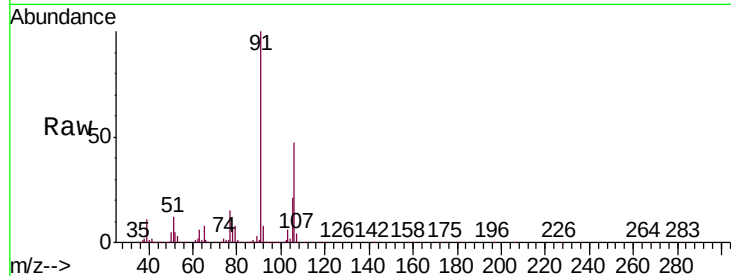
#59
m/p-Xylene
Concen: 18.21 ppbv m
RT: 13.23 min Scan# 3778
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion: 91 Resp:10224299
Ion Ratio Lower Upper
91 100
106 45.7 36.4 54.6

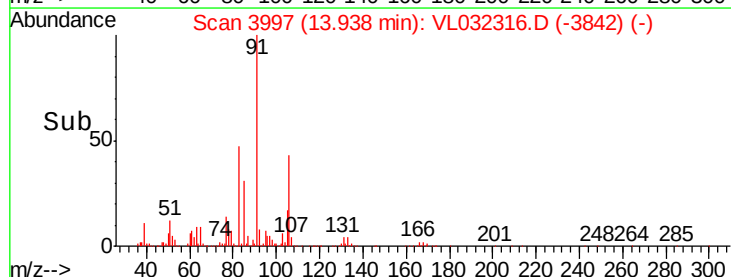
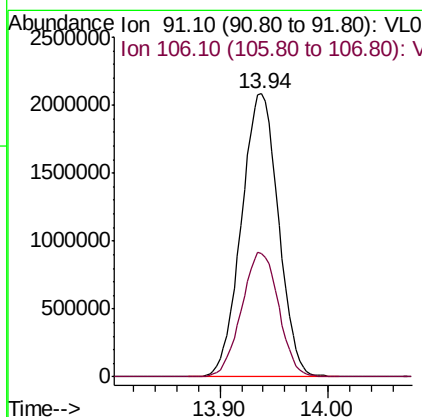
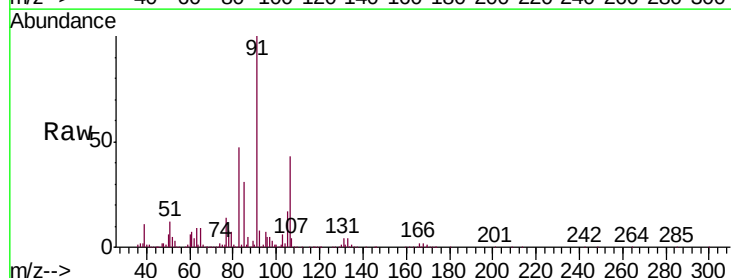
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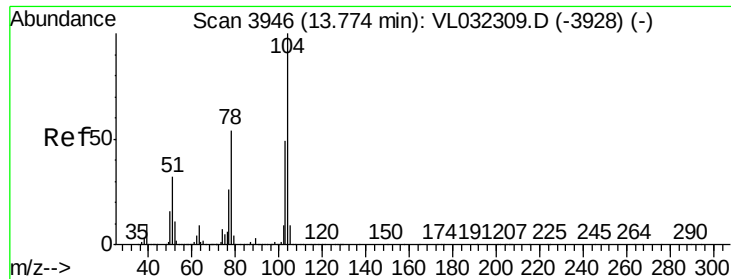
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#60
o-Xylene
Concen: 9.05 ppbv
RT: 13.94 min Scan# 3997
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion: 91 Resp: 4979435
Ion Ratio Lower Upper
91 100
106 44.0 22.4 67.0





#61

Stvrene

Concen: 9.86 ppbv

RT: 13.77 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

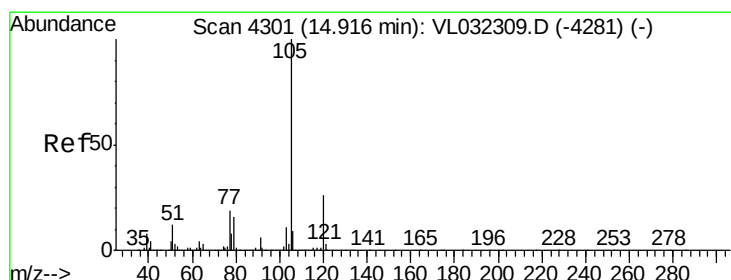
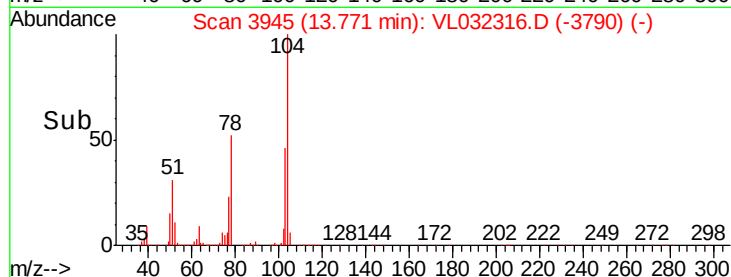
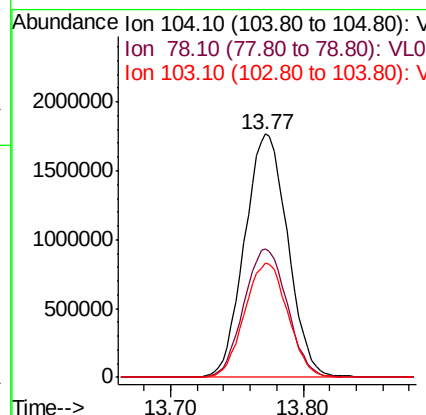
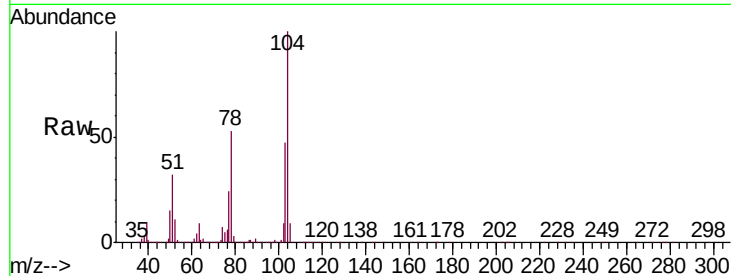
ICVVL072718

Tot Ion:104 Resp: 3996432

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.6	63.8
103	47.2	38.0	57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 9.10 ppbv

RT: 14.91 min Scan# 4300

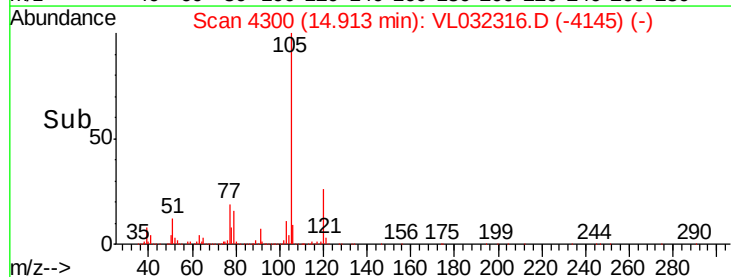
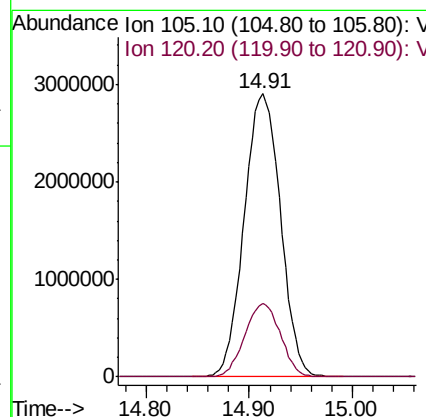
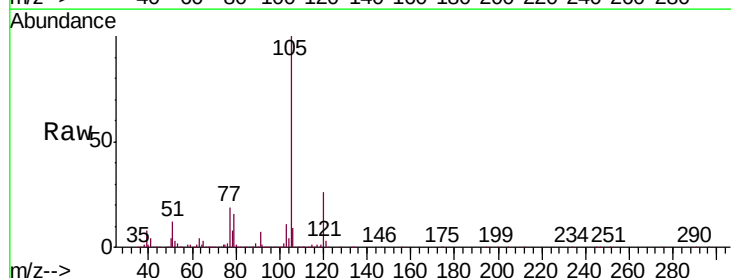
Delta R.T. -0.00 min

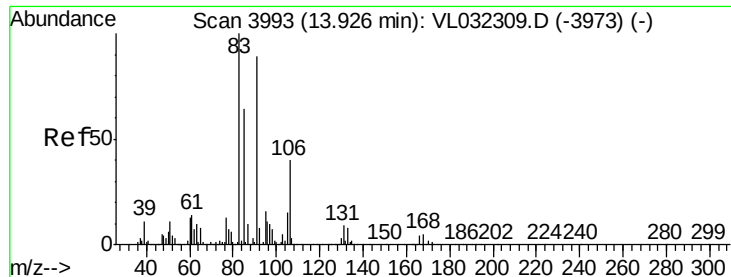
Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion:105 Resp: 7114801

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.4	30.6





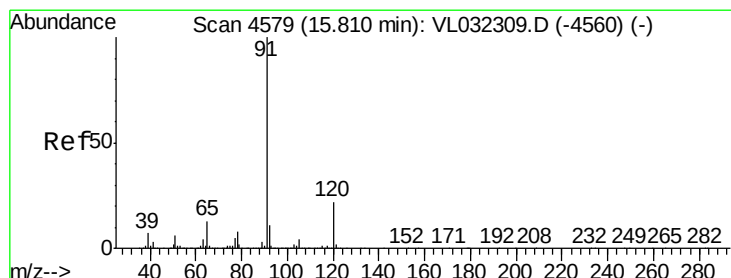
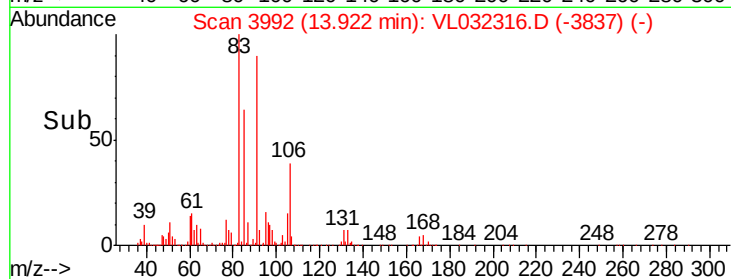
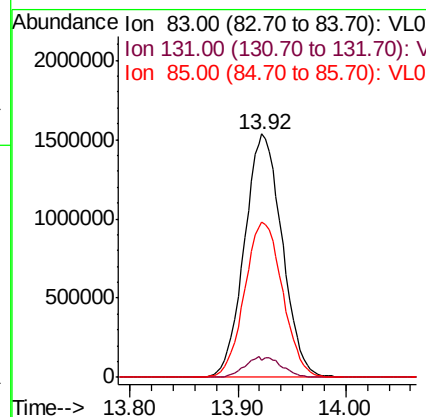
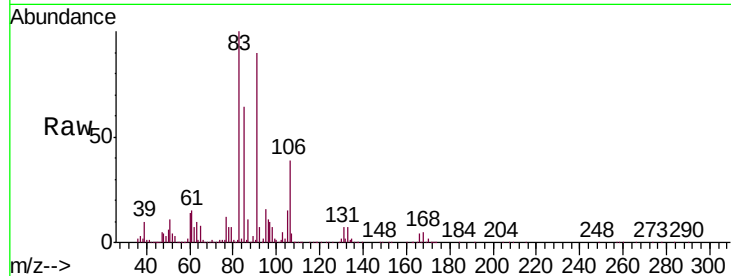
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.30 ppbv
 RT: 13.92 min Scan# 3992
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.3	4.3	12.8
85	64.6	32.6	97.7

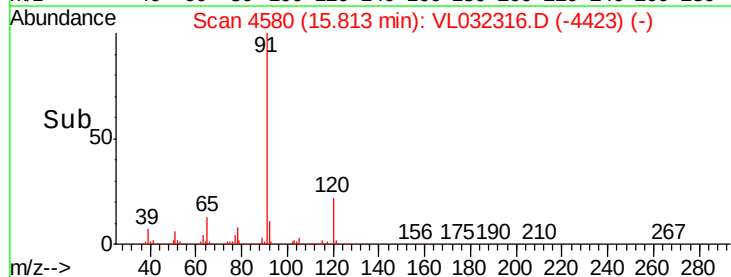
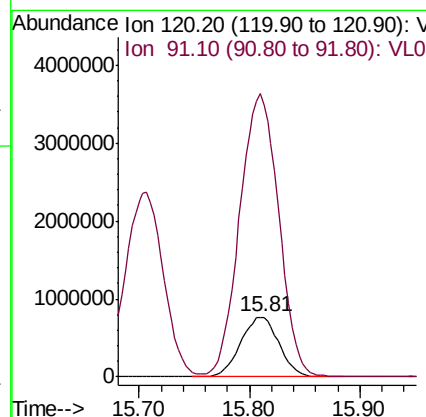
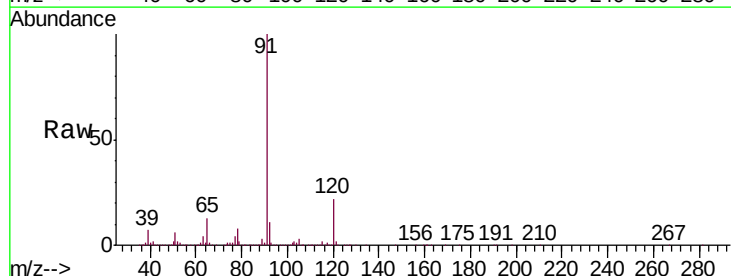
Manual Integrations
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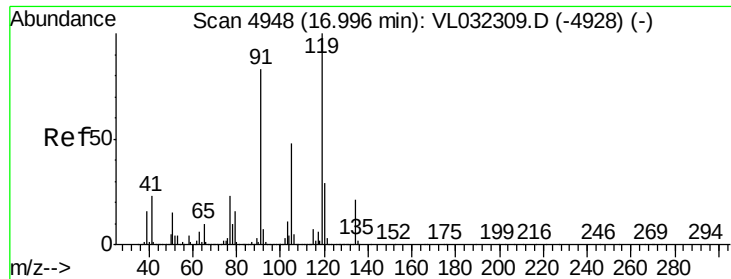
MMDadoda
 7/30/2018 11:43:04 AM



#64
 n-propylbenzene
 Concen: 9.05 ppbv
 RT: 15.81 min Scan# 4580
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
120	100		
91	484.5	381.8	572.8





#65
 tert-Butylbenzene
 Concen: 8.74 ppbv
 RT: 17.00 min Scan# 4948
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

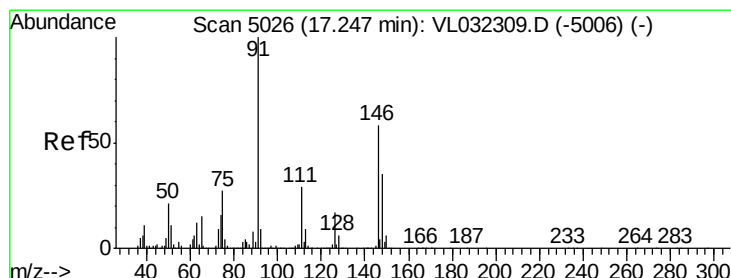
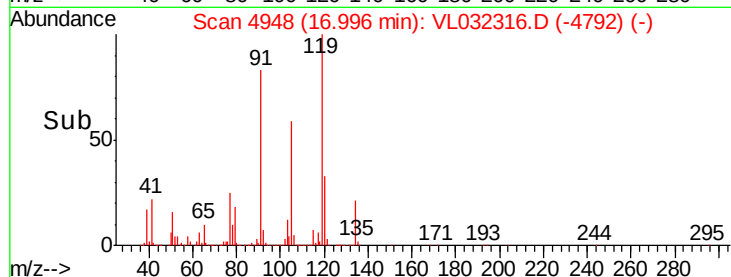
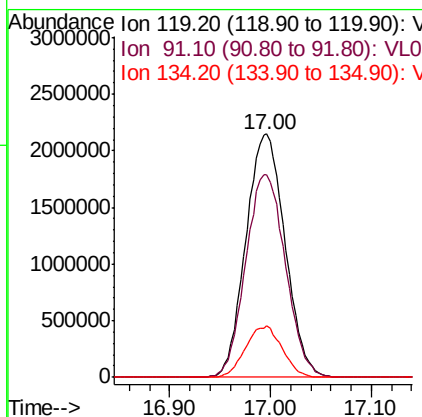
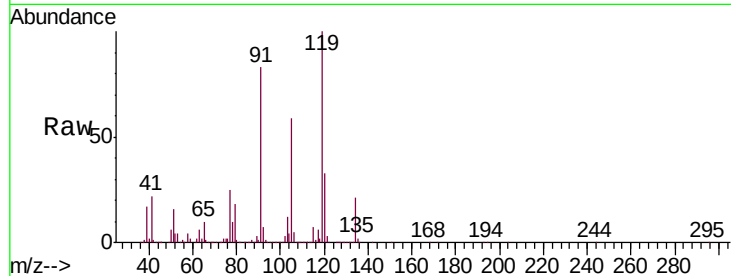
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion: 119 Resp: 5774875

Ion	Ratio	Lower	Upper
119	100		
91	84.8	67.5	101.3
134	19.7	15.8	23.6

Manual Integrations
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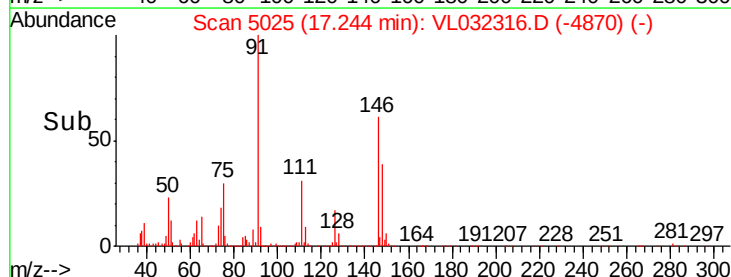
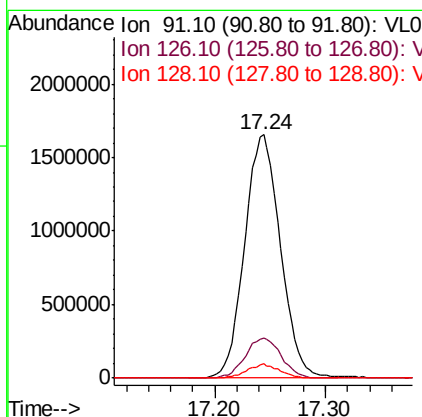
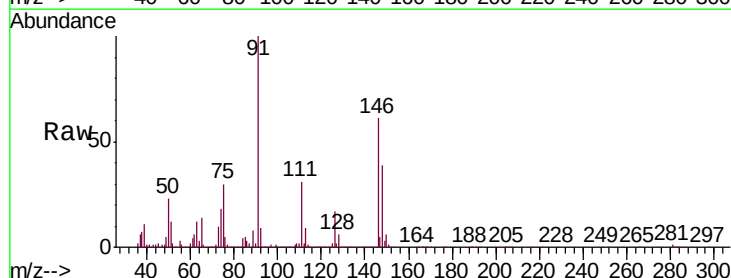
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 7/30/2018 11:43:04 AM

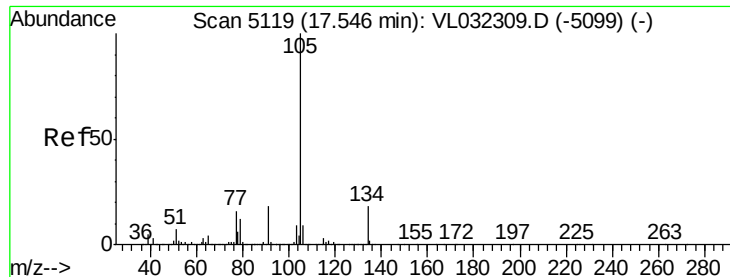


#66
 Benzyl Chloride
 Concen: 9.45 ppbv
 RT: 17.24 min Scan# 5025
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion: 91 Resp: 3719609

Ion	Ratio	Lower	Upper
91	100		
126	16.7	13.7	20.5
128	5.3	4.3	6.5





#67

sec-Butylbenzene

Concen: 8.78 ppbv

RT: 17.55 min Scan# 5119

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 105 Resp: 8683226

Ion Ratio Lower Upper

105 100

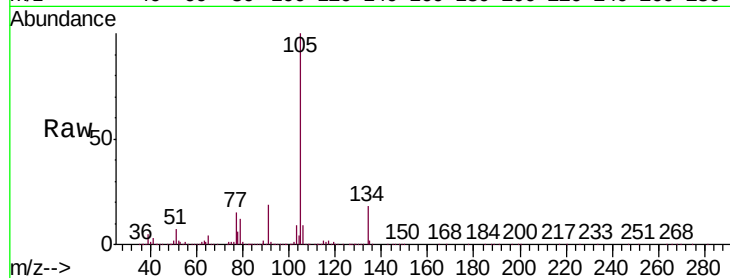
134 17.7 14.2 21.4

Manual Integrations

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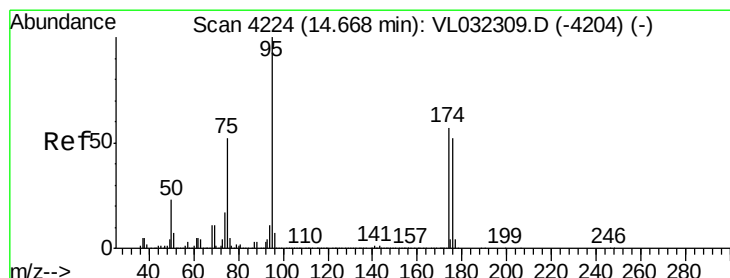
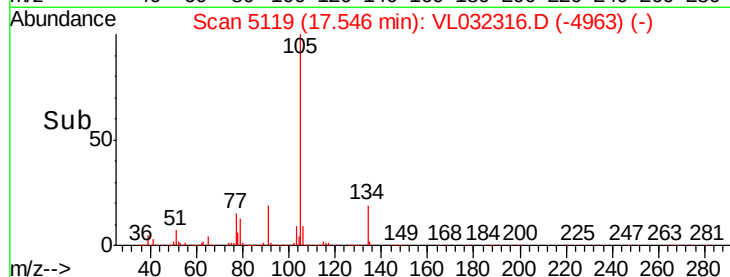
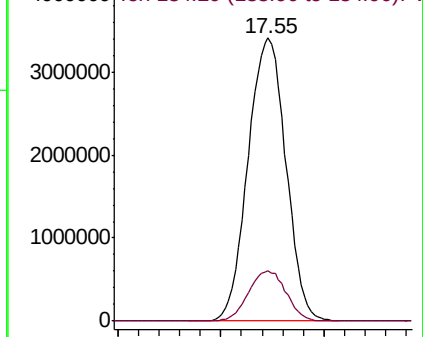
MMDadoda

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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: 9.79 ppbv

RT: 14.67 min Scan# 4223

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

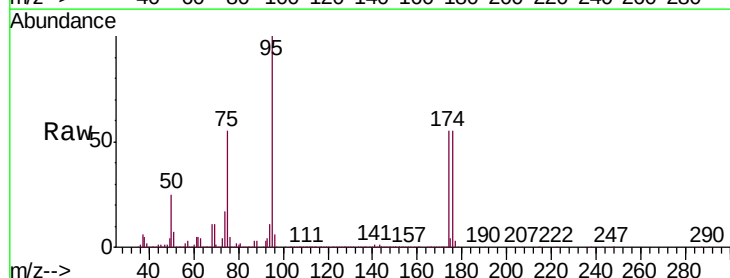
Tgt Ion: 95 Resp: 3995677

Ion Ratio Lower Upper

95 100

174 55.9 45.5 68.3

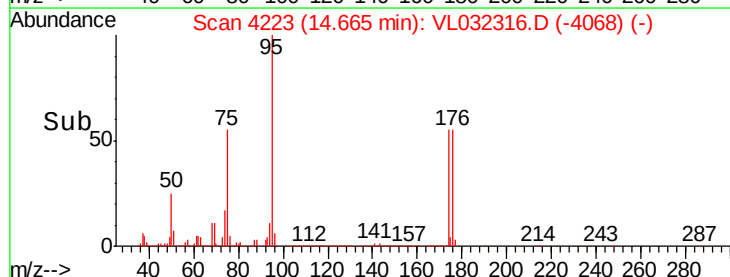
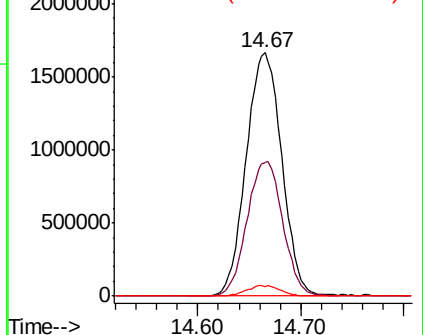
175 4.1 3.3 4.9

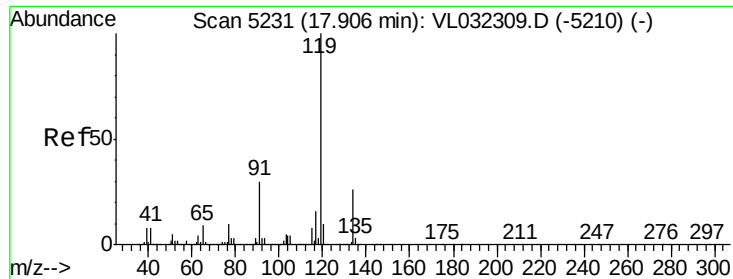


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





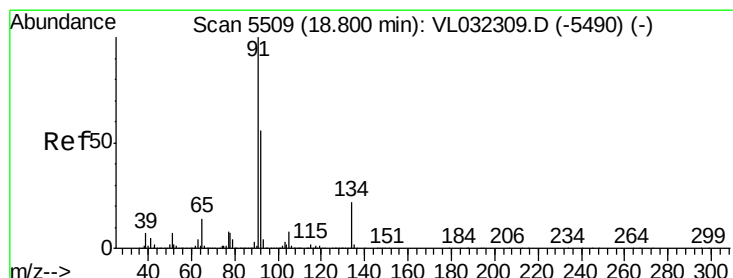
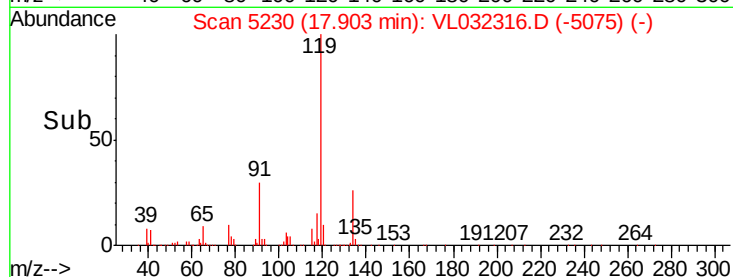
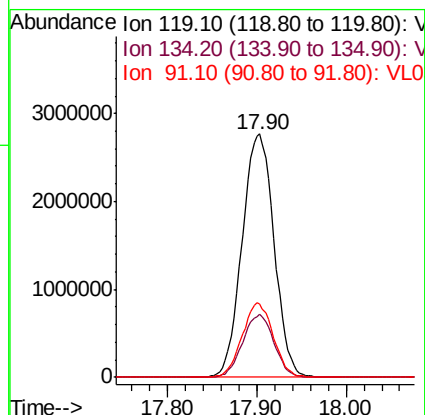
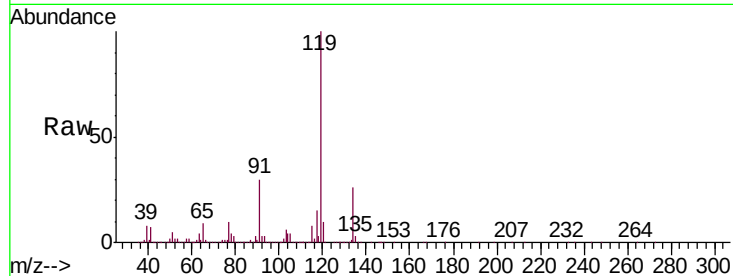
#69
 p-Isopropyltoluene
 Concen: 8.99 ppbv
 RT: 17.90 min Scan# 5230
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.7	23.8	35.6

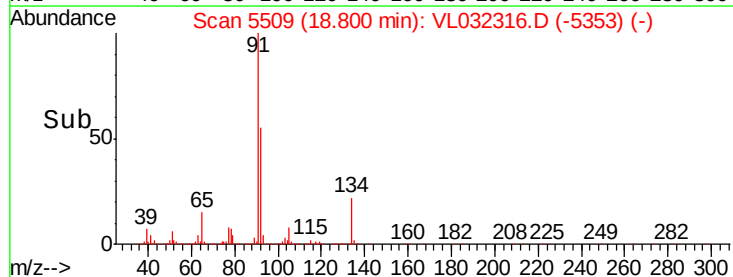
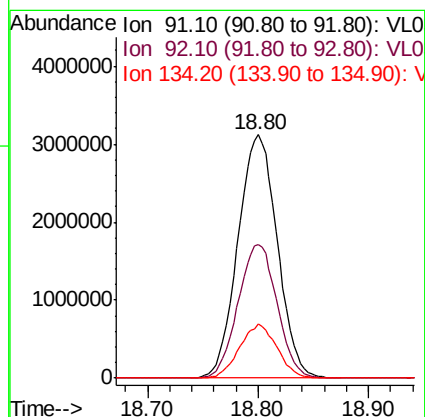
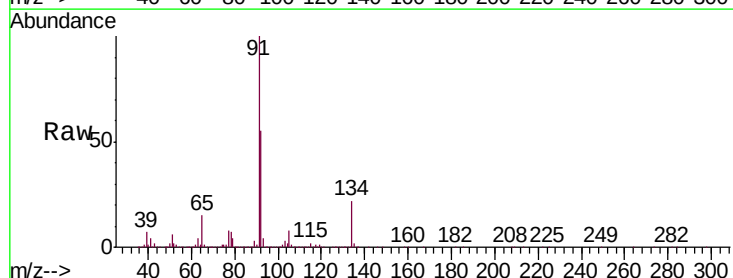
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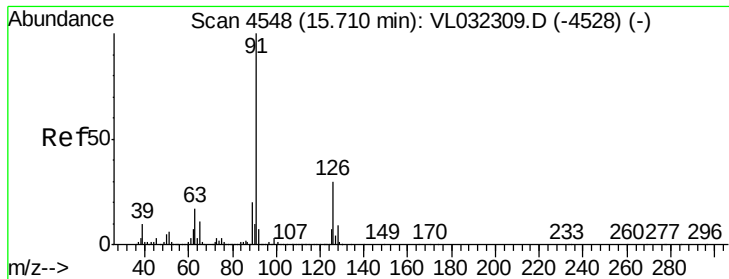
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 7/30/2018 11:43:04 AM



#70
 n-Butylbenzene
 Concen: 8.67 ppbv
 RT: 18.80 min Scan# 5509
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.2	66.4
134	21.3	17.4	26.2





#71

2-Chlorotoluene

Concen: 9.25 ppbv

RT: 15.71 min Scan# 4547

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion: 91 Resp: 5676761

Ion Ratio Lower Upper

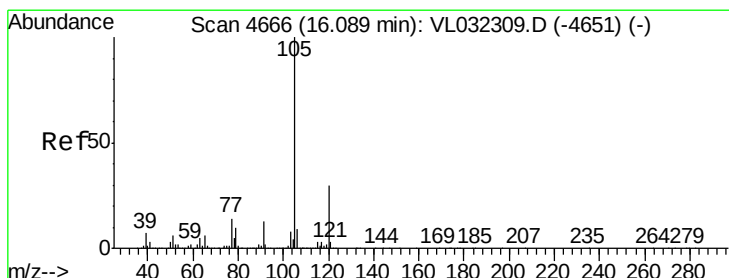
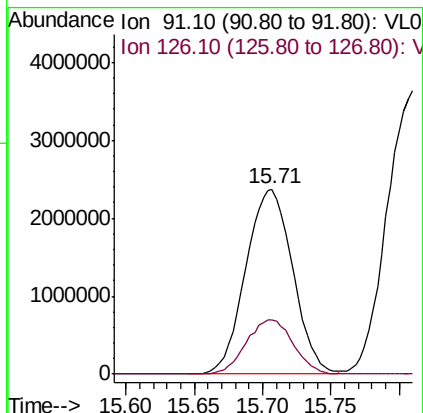
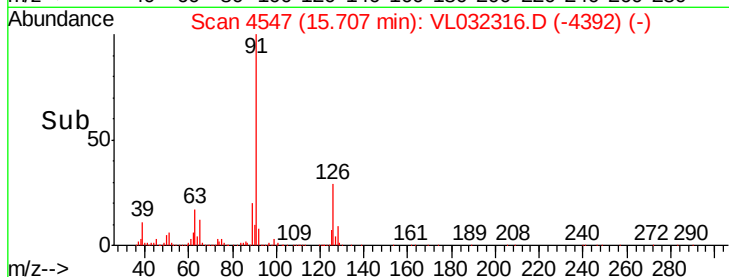
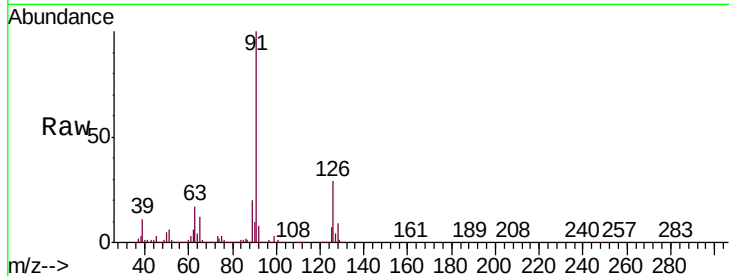
91 100

126 29.4 11.8 47.0

Manual Integrations
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#72

4-Ethyltoluene

Concen: 9.52 ppbv

RT: 16.09 min Scan# 4665

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion: 105 Resp: 5871529

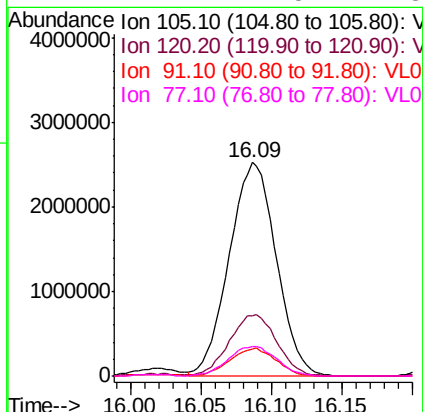
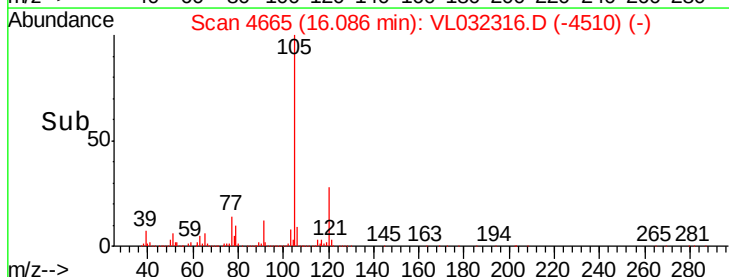
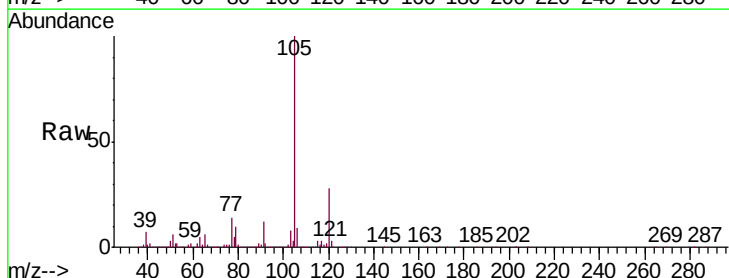
Ion Ratio Lower Upper

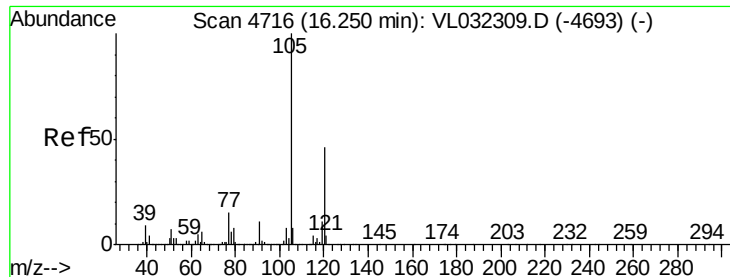
105 100

120 29.0 23.1 34.7

91 12.7 10.0 15.0

77 14.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 9.13 ppbv

RT: 16.24 min Scan# 4714

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072718

Tot Ion:105 Resp: 5542970

Ion Ratio Lower Upper

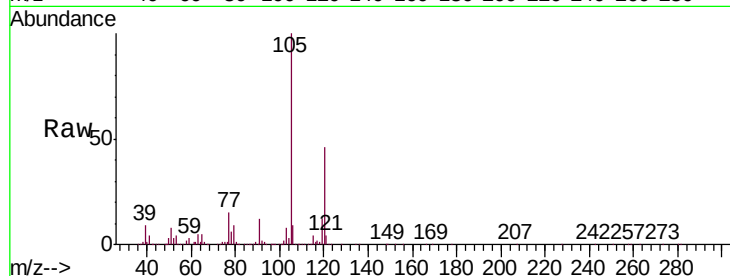
105 100

120 45.6 36.5 54.7

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.24

2500000

2000000

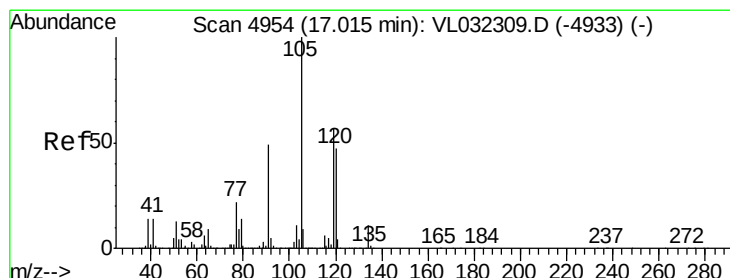
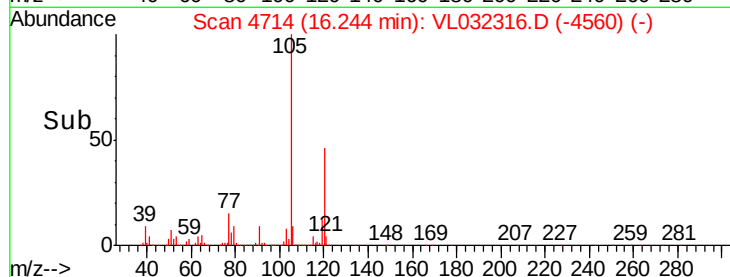
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.45 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion:105 Resp: 5411927

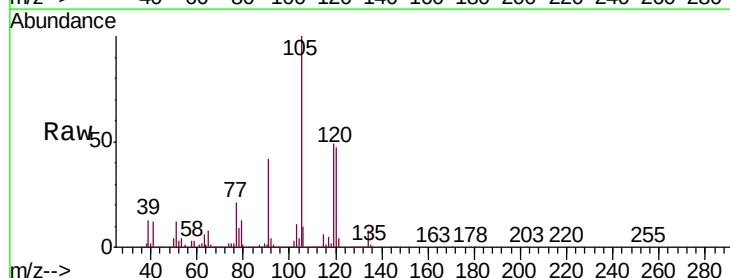
Ion Ratio Lower Upper

105 100

120 46.6 37.8 56.6

91 42.2 39.4 59.0

77 20.7 17.6 26.4



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

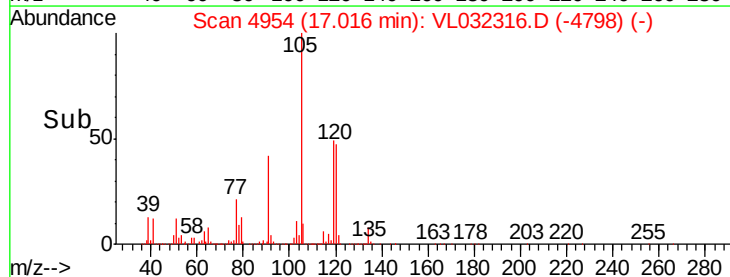
3000000

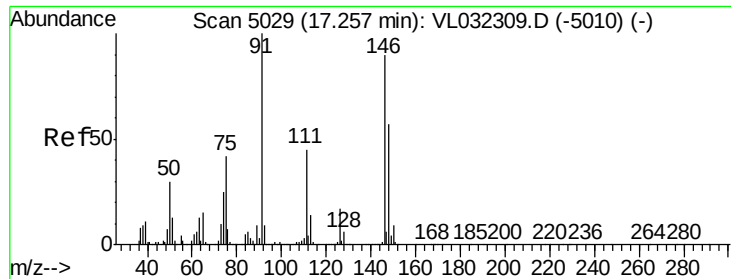
2000000

1000000

0

Time-->





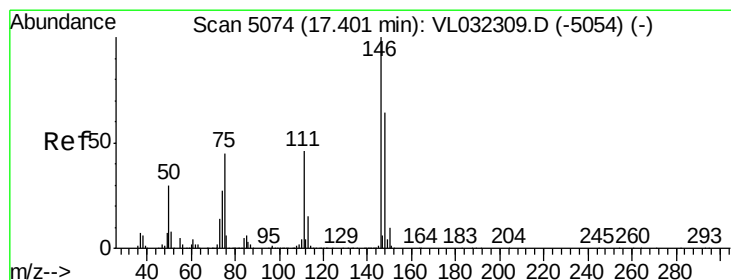
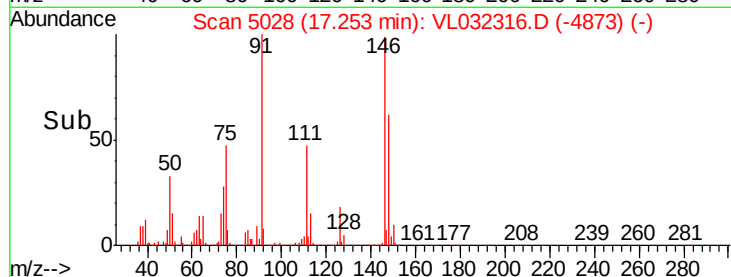
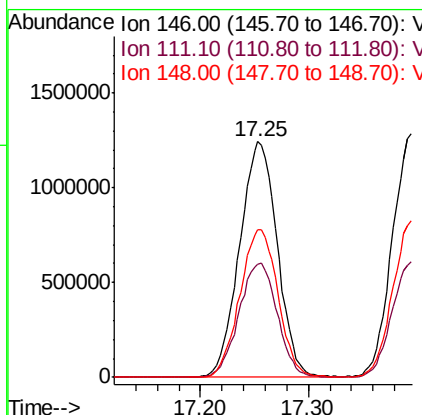
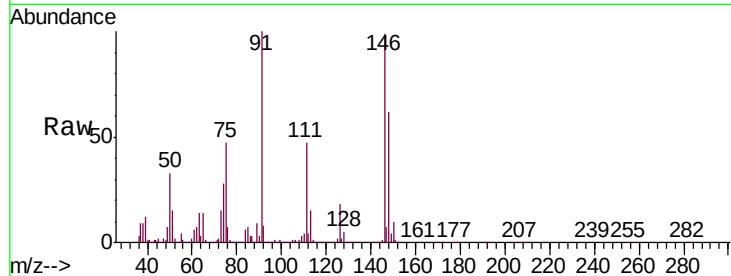
#75
1,3-Dichlorobenzene
Concen: 8.14 ppbv
RT: 17.25 min Scan# 5028
Delta R.T. -0.00 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072718

Tot Ion:146 Resp: 3017278
Ion Ratio Lower Upper
146 100
111 49.3 24.6 73.8
148 63.6 31.6 95.0

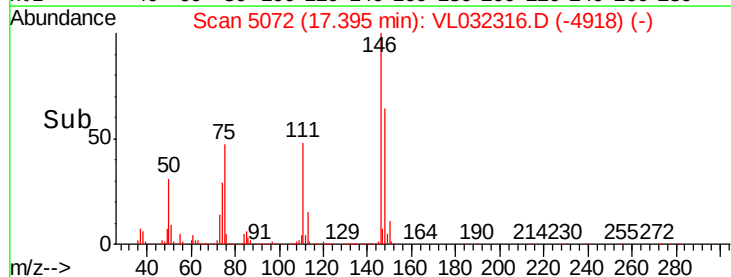
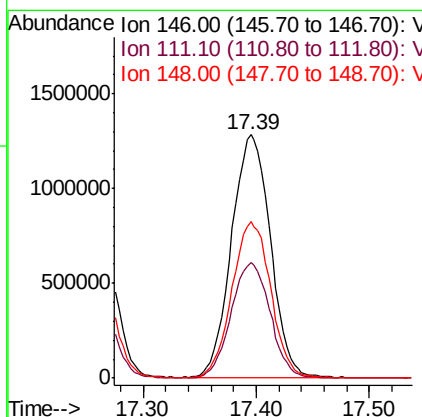
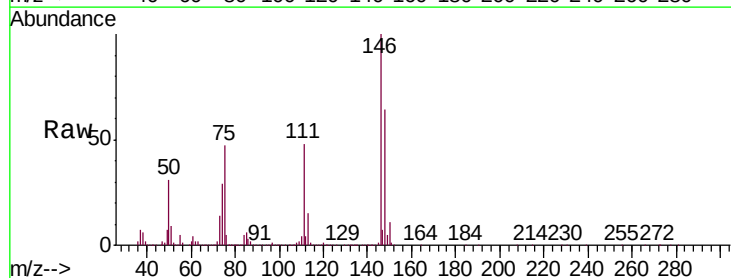
Manual Integrations
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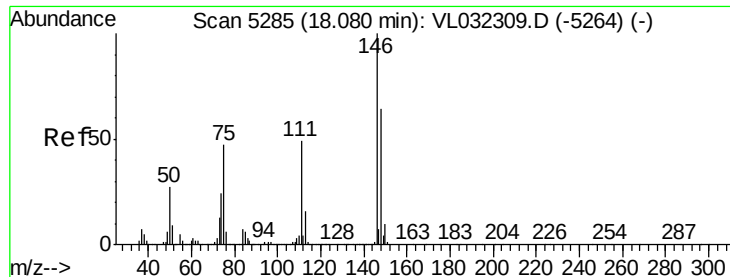
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#76
1,4-Dichlorobenzene
Concen: 8.60 ppbv
RT: 17.39 min Scan# 5072
Delta R.T. -0.01 min
Lab File: VL032316.D
Acq: 27 Jul 2018 11:18

Tgt Ion:146 Resp: 3060640
Ion Ratio Lower Upper
146 100
111 47.8 23.6 70.8
148 65.0 32.1 96.3





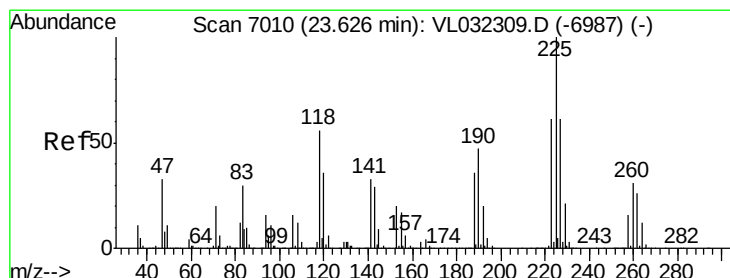
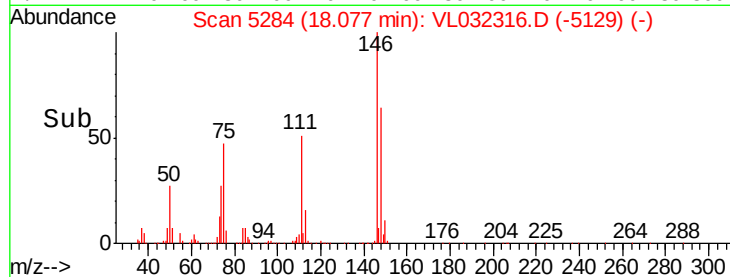
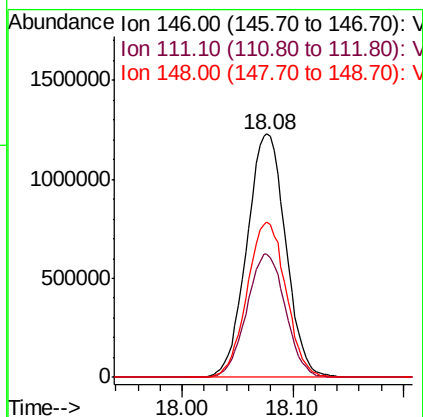
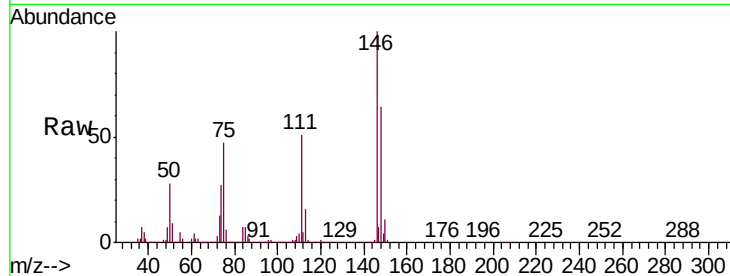
#77
 1,2-Dichlorobenzene
 Concen: 8.23 ppbv
 RT: 18.08 min Scan# 5284
 Delta R.T. -0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.6	25.1	75.3
148	64.0	31.9	95.7

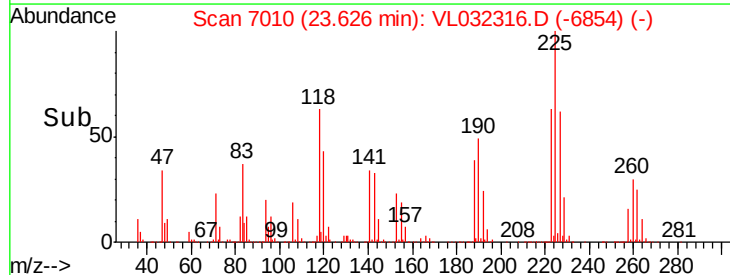
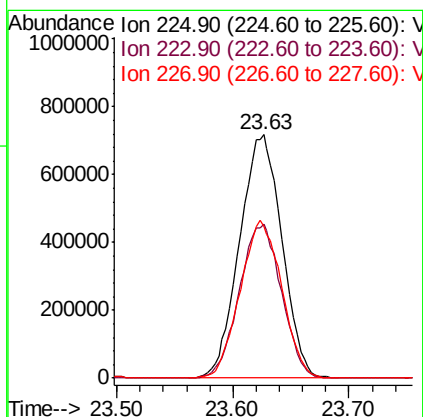
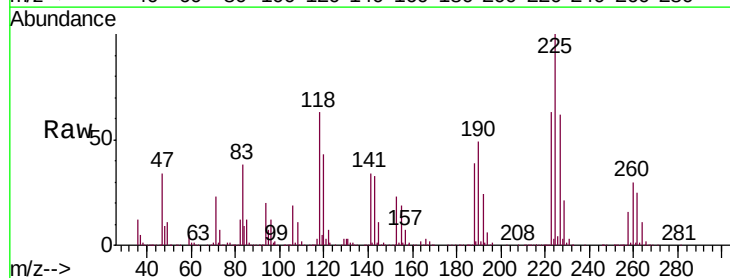
Manual Integrations
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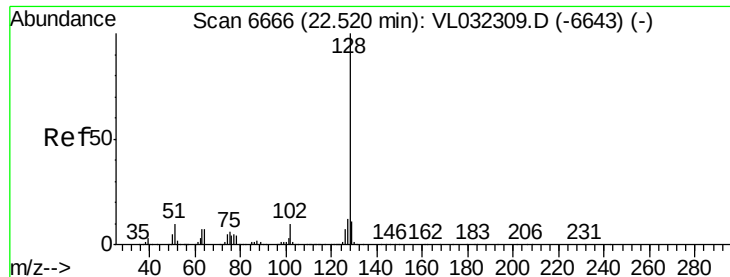
MMDadoda
 7/30/2018 11:43:04 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 14.19 ppbv
 RT: 23.63 min Scan# 7010
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.5	75.7
227	63.7	51.3	76.9





#79

Naphthalene

Concen: 9.64 ppbv

RT: 22.51 min Scan# 6664

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA_L

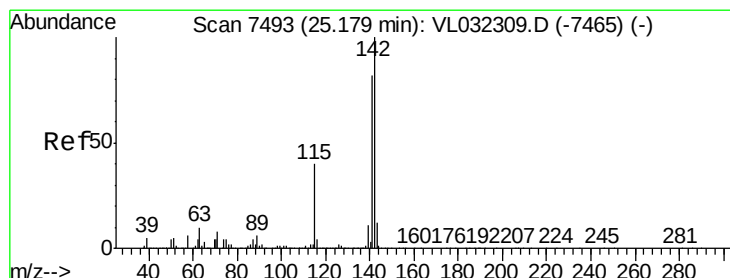
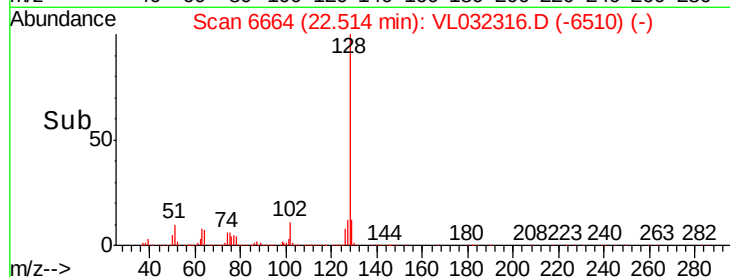
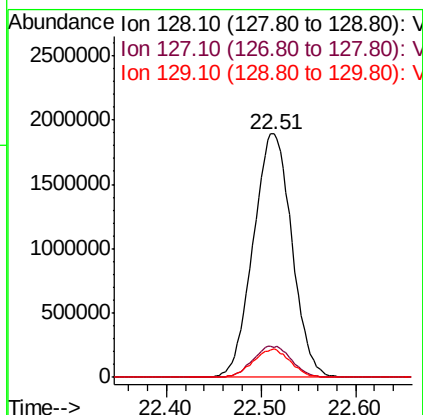
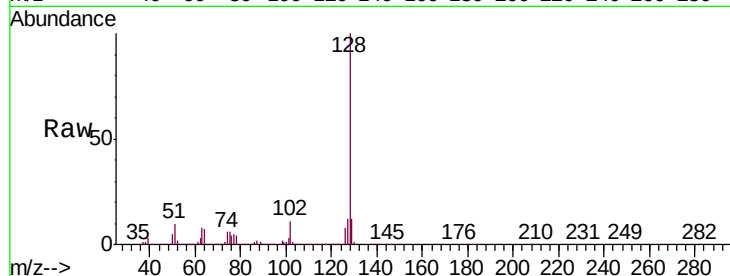
ClientSampleId :

ICVVL072718

Tot Ion:	128	Resp:	5354300
Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.9	14.9
129	11.5	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
7/30/2018 11:43:04 AM



#80

Naphthalene, 2-methyl-

Concen: 12.17 ppbv

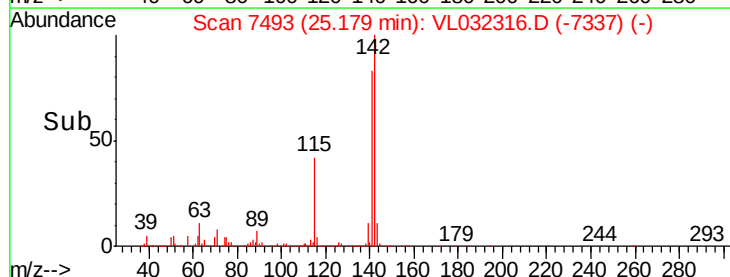
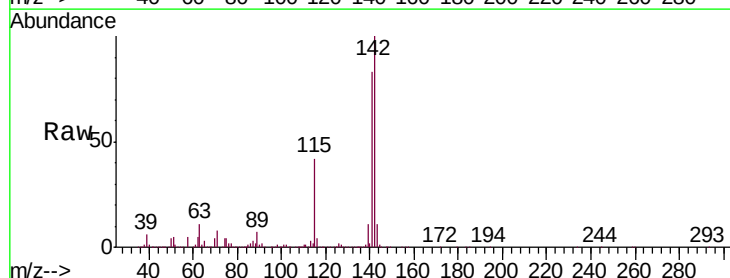
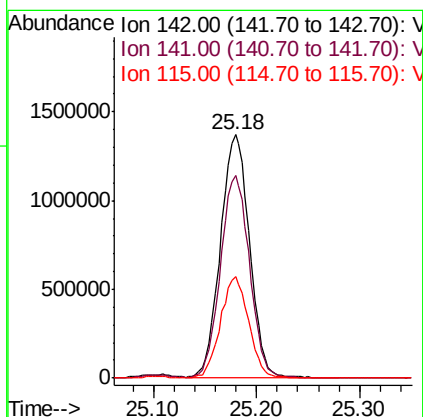
RT: 25.18 min Scan# 7493

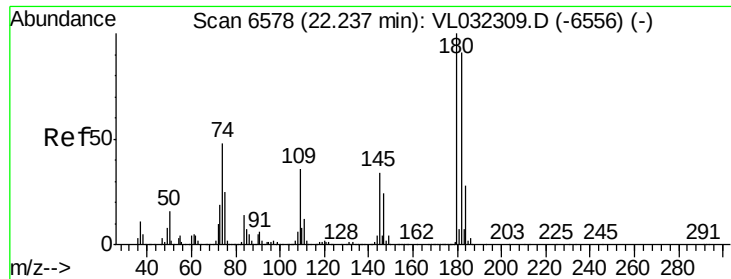
Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion:	142	Resp:	2675784
Ion	Ratio	Lower	Upper
142	100		
141	83.6	66.7	100.1
115	40.6	31.1	46.7





#81
 1,2,4-Trichlorobenzene
 Concen: 9.09 ppbv
 RT: 22.24 min Scan# 6578
 Delta R.T. 0.00 min
 Lab File: VL032316.D
 Acq: 27 Jul 2018 11:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072718

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.2
184	30.5	24.3	36.5

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:04 AM

