

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033709.D
 Acq On : 17 May 2019 9:09
 Operator : SY/AP
 Sample : VL0517ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:35 PM

Quant Time: May 17 23:28:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1126476	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2757724	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2914569m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2309279	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	2412581	10.163	ppbv	100
3) Chlorodifluoromethane	3.01	51	1335347	10.349	ppbv	99
4) Chloromethane	3.17	50	734029	9.946	ppbv	96
5) Vinyl Chloride	3.29	62	746335	9.927	ppbv	97
6) Bromomethane	3.51	94	464513	10.126	ppbv	99
7) Chloroethane	3.60	64	265803	9.949	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1893974	9.896	ppbv	99
9) Propene	3.04	41	574222	10.463	ppbv	99
10) Heptane	8.24	43	1428314	9.190	ppbv	99
11) Trichlorofluoromethane	4.00	101	2136156	9.428	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1479451	9.350	ppbv	100
13) Ethanol	3.65	45	126480	7.130	ppbv	99
14) Bromoethene	3.79	108	585372	10.064	ppbv	99
15) Acetone	3.90	43	1356619	8.680	ppbv	99
16) 1,3-Butadiene	3.36	39	650053	10.444	ppbv	99
17) tert-Butyl alcohol	4.35	59	1202087	9.512	ppbv	100
18) 1,1-Dichloroethene	4.35	96	660168	9.885	ppbv	95
19) Isopropyl Alcohol	4.02	45	897475	8.906	ppbv	100
20) Methylene Chloride	4.41	84	556313	9.245	ppbv	98
21) Allyl Chloride	4.48	41	981965	10.073	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	689582	10.074	ppbv	98
23) Vinyl Acetate	5.15	43	2210319	10.726	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1511664	9.650	ppbv	98
25) Ethyl Acetate	5.77	43	2474180	9.012	ppbv	99
26) Hexane	5.78	57	1082569	9.172	ppbv	98
27) Carbon Disulfide	4.62	76	1684691	10.404	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1979255	10.286	ppbv	99
29) Chloroform	5.85	83	1864302	8.575	ppbv	99
30) Cyclohexane	7.25	84	962775	9.702	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1140583	9.746	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	1961760	9.037	ppbv	100
34) 2-Butanone	5.33	43	1715401	10.035	ppbv	100
35) Carbon Tetrachloride	7.13	117	2116627	9.582	ppbv	99
36) Benzene	7.00	78	2346643	9.354	ppbv	100
37) 1,2-Dichloroethane	6.41	62	1434478	8.865	ppbv	100
38) Trichloroethene	7.96	130	937858	10.075	ppbv	98
39) 1,2-Dichloropropane	7.73	63	871561	9.319	ppbv	96
40) 1,4-Dioxane	7.95	88	359364	9.185	ppbv #	95
41) Tetrahydrofuran	6.15	42	922660	9.634	ppbv	99
42) Bromodichloromethane	7.91	83	2105685	9.505	ppbv	96
43) Methyl Methacrylate	8.13	69	934367	10.121	ppbv	99

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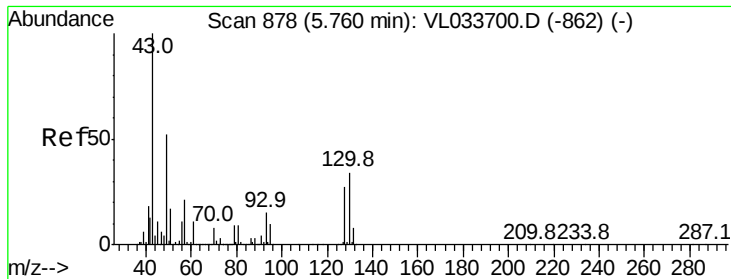
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3896863	9.191	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1376457	11.761	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1441561	10.519	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	983169	9.253	ppbv	97
48) Dibromochloromethane	10.45	129	1798925	9.772	ppbv	100
49) Bromoform	13.20	173	1575392	10.170	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2501274	9.513	ppbv	100
51) 2-Hexanone	10.27	43	2071161	10.093	ppbv #	100
52) Tetrachloroethene	11.37	164	904476	10.257	ppbv	99
53) Toluene	9.94	91	2728689	10.085	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1556007	9.596	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1207966	8.957	ppbv	97
57) Chlorobenzene	12.30	112	2135043	8.899	ppbv	99
58) Ethyl Benzene	12.86	91	3796123	9.836	ppbv	100
59) m/p-Xylene	13.15	91	6299456m	18.671	ppbv	
60) o-Xylene	13.85	91	3141445	9.236	ppbv	99
61) Styrene	13.68	104	2395174	10.460	ppbv	100
62) Isopropylbenzene	14.82	105	4197596	9.164	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2123341	8.585	ppbv	99
64) n-propylbenzene	15.72	120	1079445	9.111	ppbv	100
65) tert-Butylbenzene	16.91	119	3818894	9.132	ppbv	100
66) Benzyl Chloride	17.15	91	2140538	10.747	ppbv	100
67) sec-Butylbenzene	17.46	105	5315696	9.082	ppbv	100
69) p-Isopropyltoluene	17.81	119	4485518	9.272	ppbv	99
70) n-Butylbenzene	18.71	91	4674227	9.010	ppbv	100
71) 2-Chlorotoluene	15.61	91	3156540	9.289	ppbv	100
72) 4-Ethyltoluene	16.00	105	3716242	9.556	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3488902	9.195	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3698794	8.958	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	2142997	8.469	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2155312	8.962	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2062368	8.674	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1913644	10.645	ppbv	99
79) Naphthalene	22.41	128	4324033	11.274	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	2052056	14.081	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2212887	9.853	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 49 Resp: 1126476

Ion Ratio Lower Upper

49 100

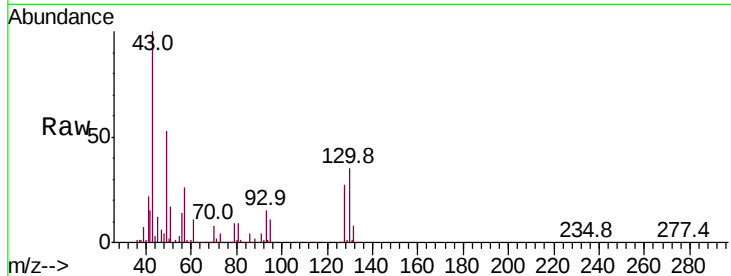
128 50.6 25.2 75.6

130 64.9 32.5 97.5

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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

5.76

800000

600000

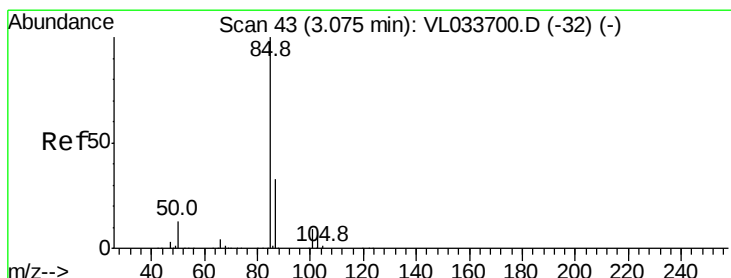
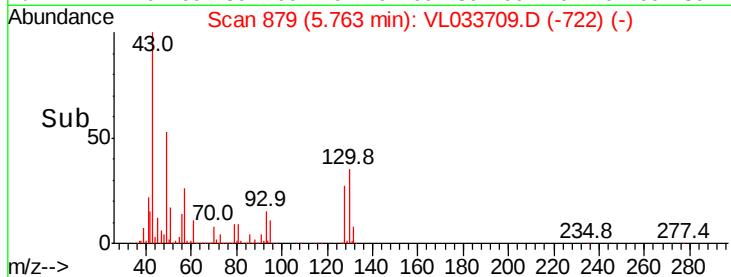
400000

200000

0

5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 10.163 ppbv

RT: 3.07 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033709.D

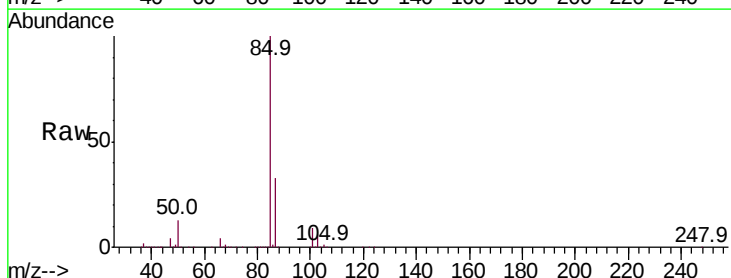
Acq: 17 May 2019 9:09

Tgt Ion: 85 Resp: 2412581

Ion Ratio Lower Upper

85 100

87 32.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

2000000

1500000

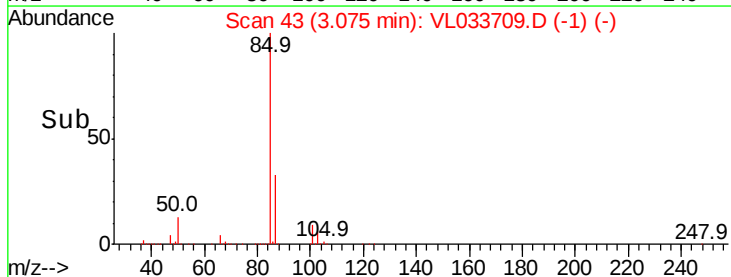
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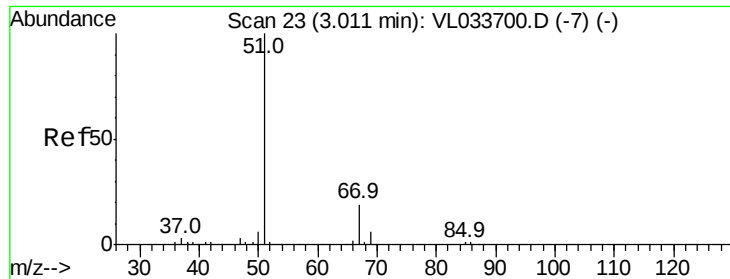
500000

0

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 10.349 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 51 Resp: 1335347

Ion Ratio Lower Upper

51 100

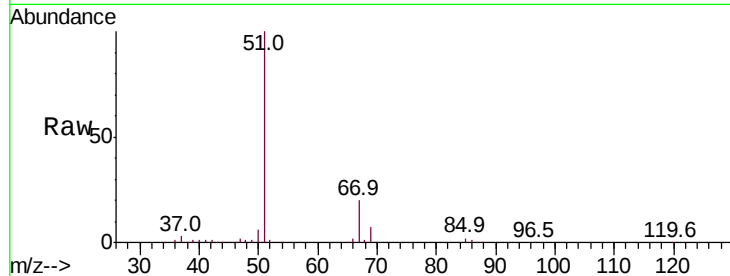
67 19.1 15.6 23.4

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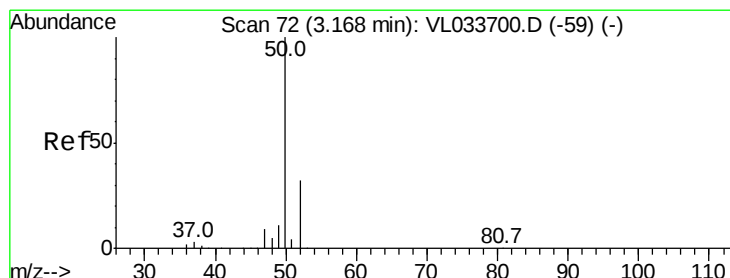
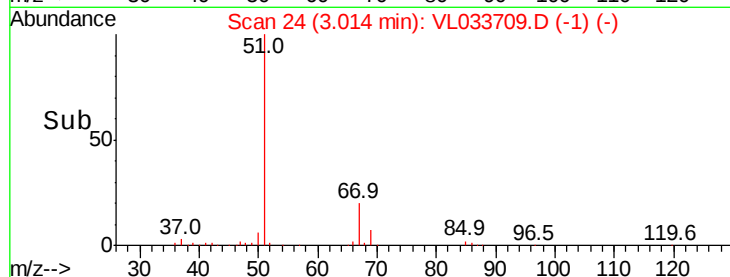
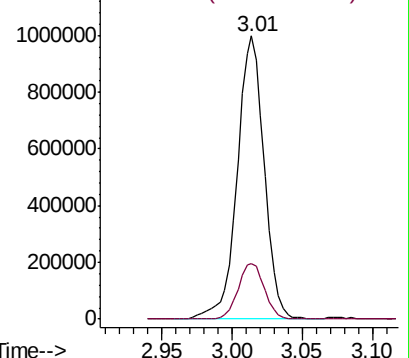
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.946 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033709.D

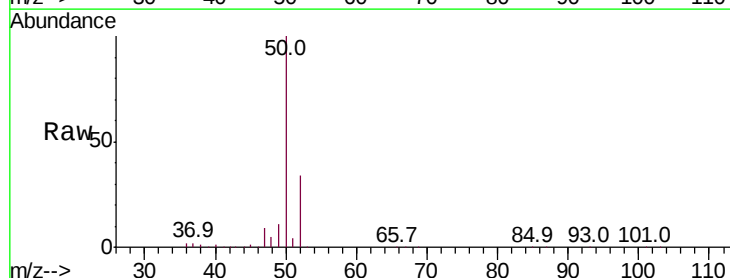
Acq: 17 May 2019 9:09

Tgt Ion: 50 Resp: 734029

Ion Ratio Lower Upper

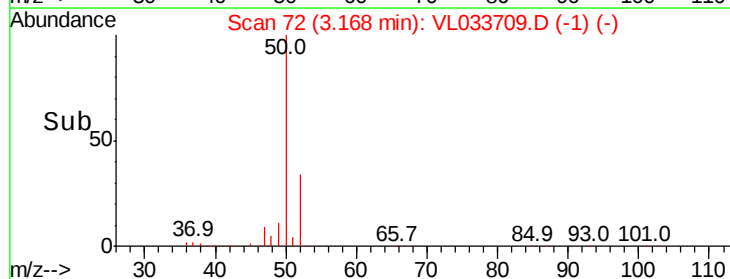
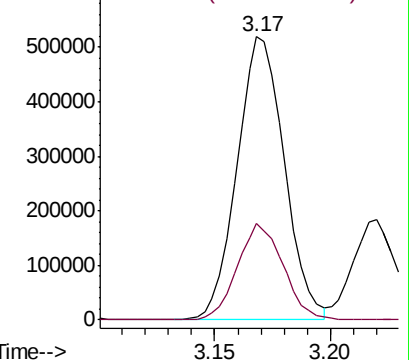
50 100

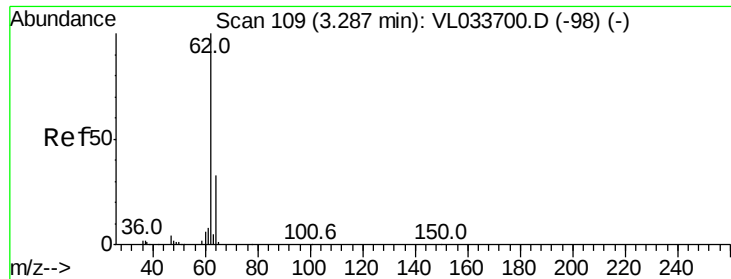
52 34.2 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.927 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 62 Resp: 746335

Ion Ratio Lower Upper

62 100

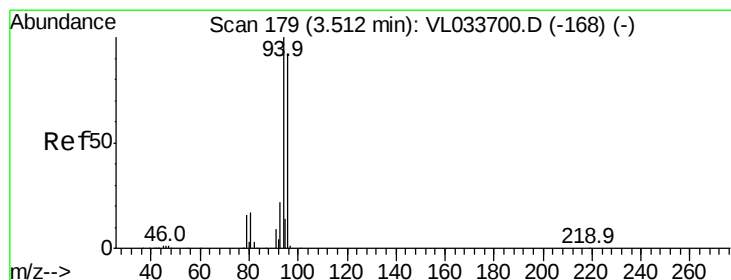
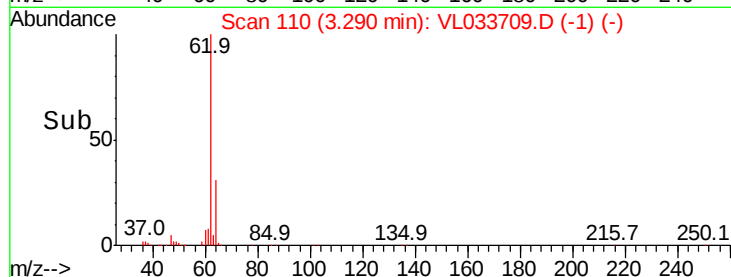
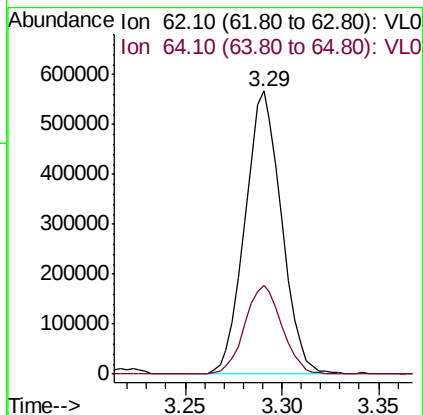
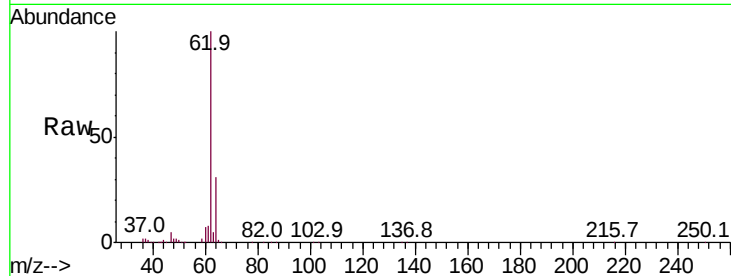
64 31.3 26.4 39.6

Manual Integrations

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#6

Bromomethane

Concen: 10.126 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033709.D

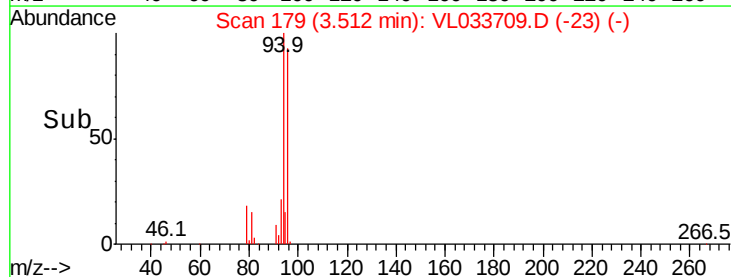
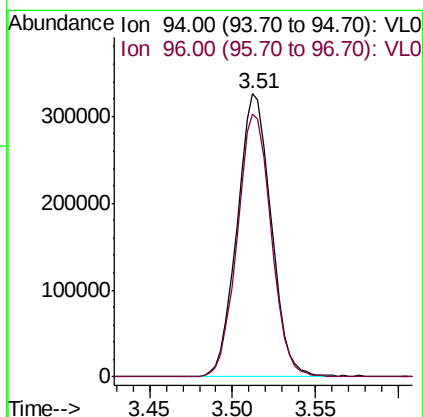
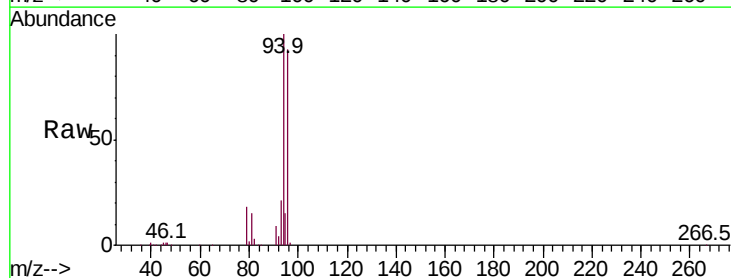
Acq: 17 May 2019 9:09

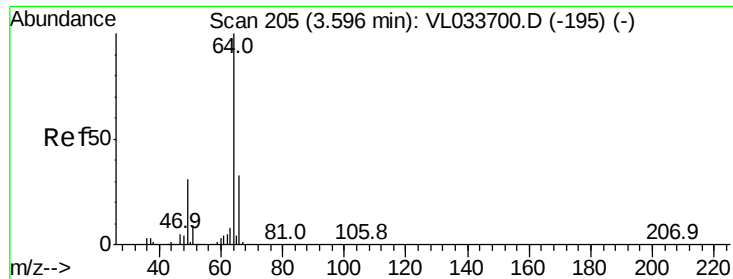
Tgt Ion: 94 Resp: 464513

Ion Ratio Lower Upper

94 100

96 92.8 73.6 110.4





#7

Chloroethane

Concen: 9.949 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 64 Resp: 265803

Ion Ratio Lower Upper

64 100

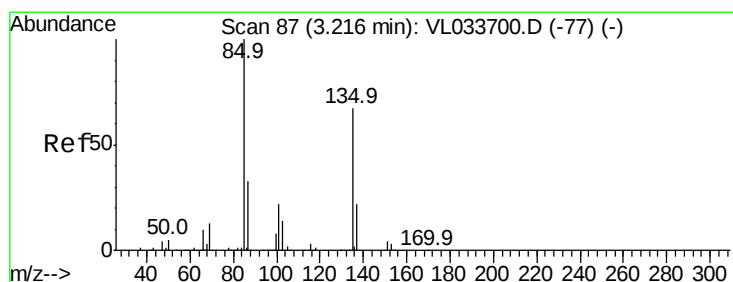
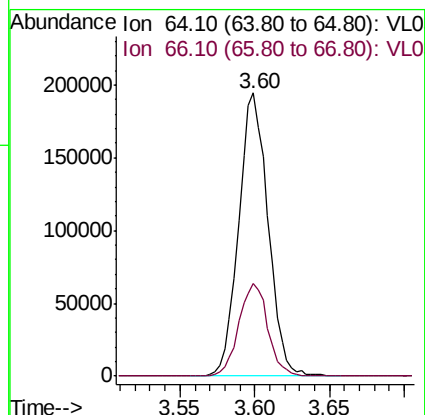
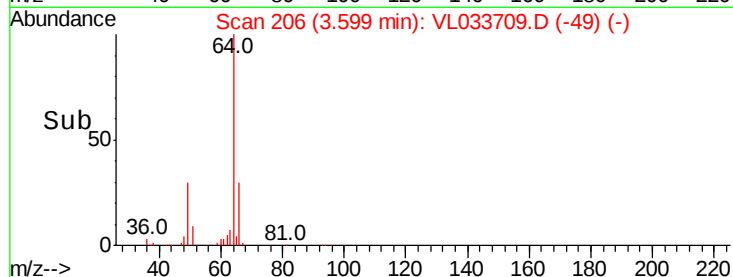
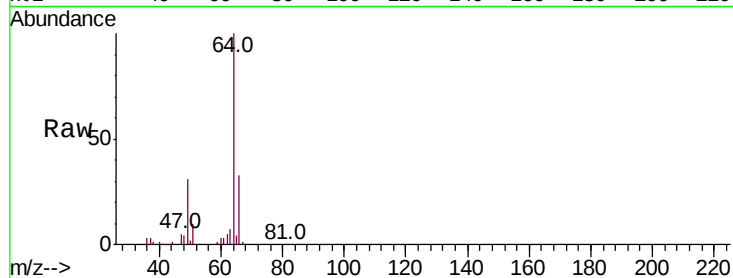
66 32.7 26.6 40.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.896 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033709.D

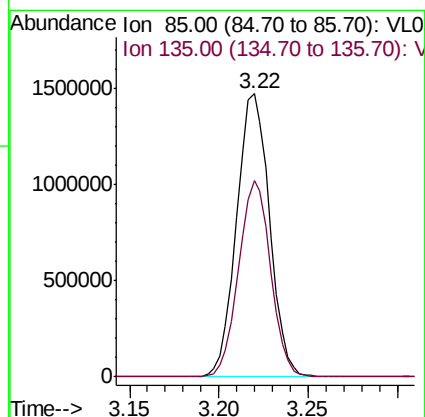
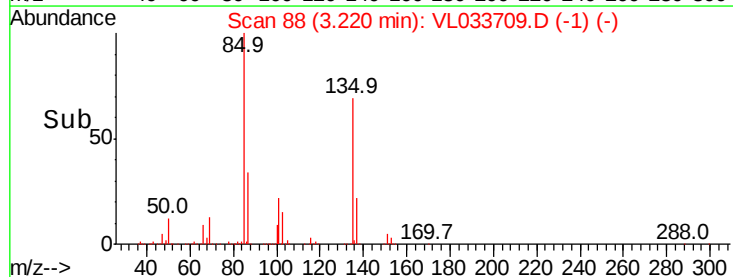
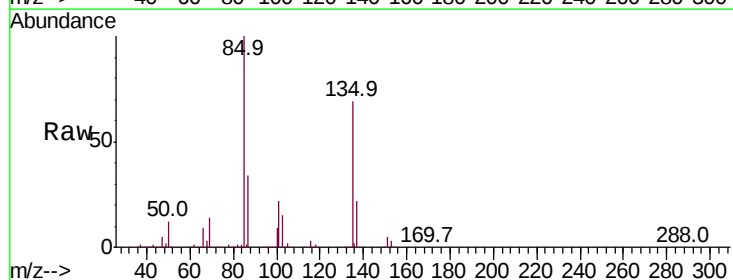
Acq: 17 May 2019 9:09

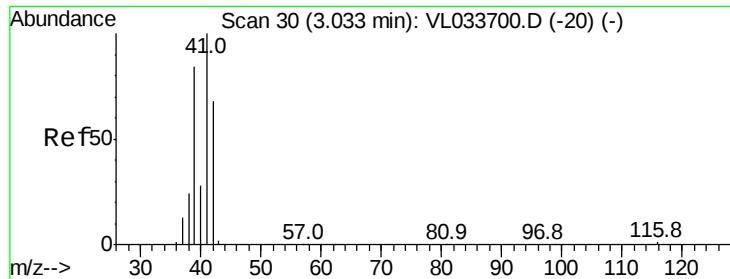
Tgt Ion: 85 Resp: 1893974

Ion Ratio Lower Upper

85 100

135 67.6 54.5 81.7





#9

Propene

Concen: 10.463 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 41 Resp: 574222

Ion Ratio Lower Upper

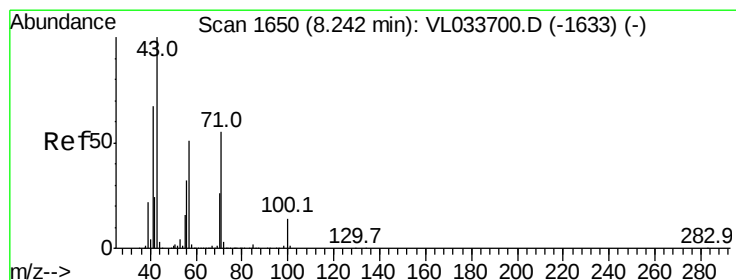
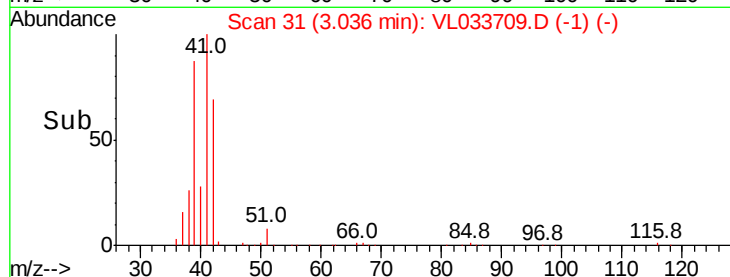
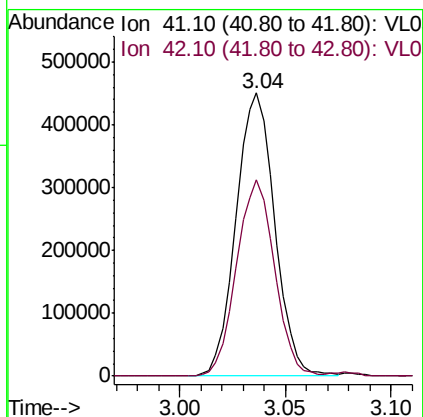
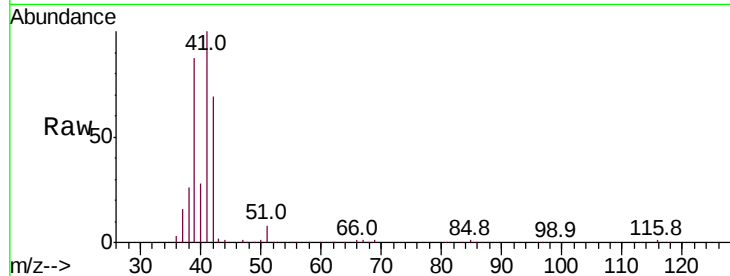
41 100

42 69.5 56.1 84.1

Manual Integrations
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#10

Heptane

Concen: 9.190 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033709.D

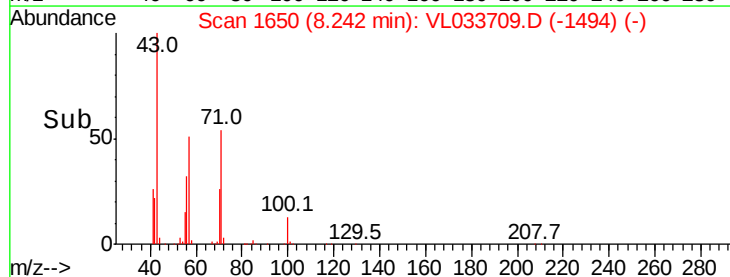
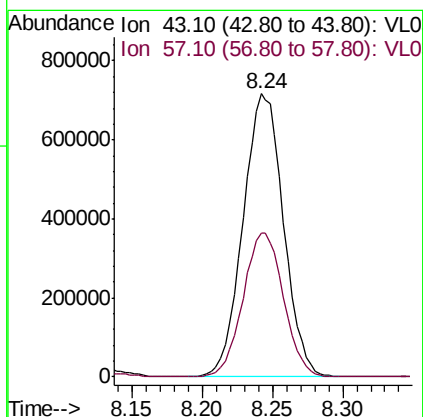
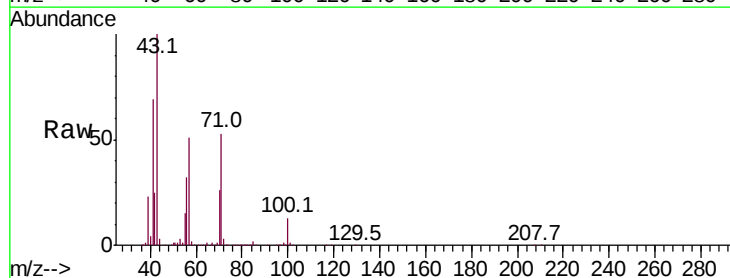
Acq: 17 May 2019 9:09

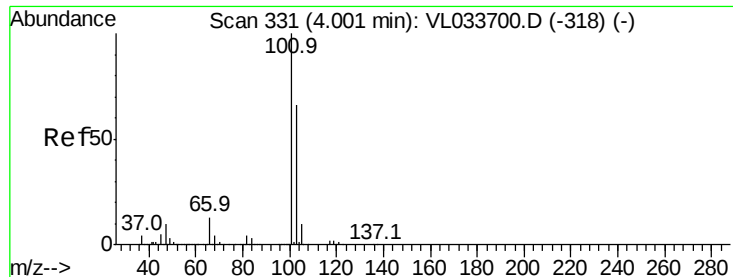
Tgt Ion: 43 Resp: 1428314

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0





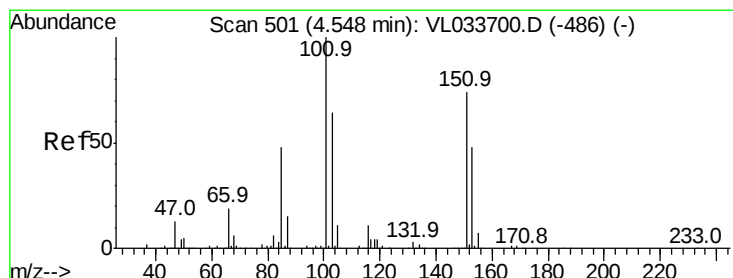
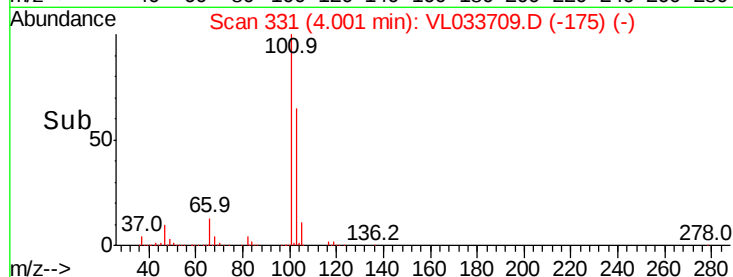
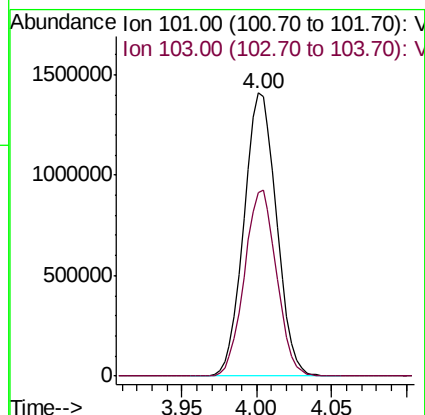
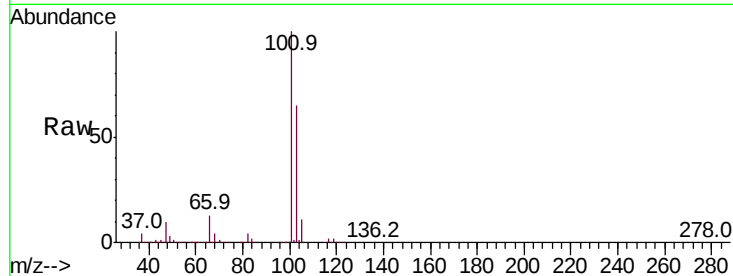
#11
 Trichlorofluoromethane
 Concen: 9.428 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion:101 Resp: 2136156
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.6 78.8

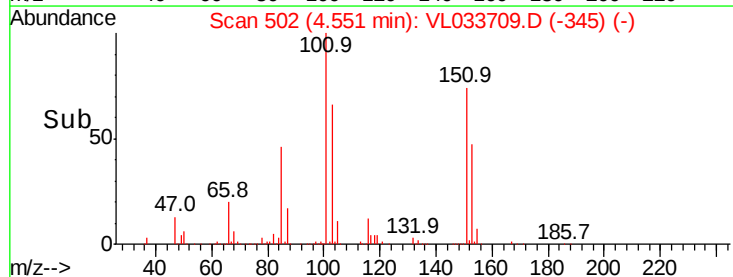
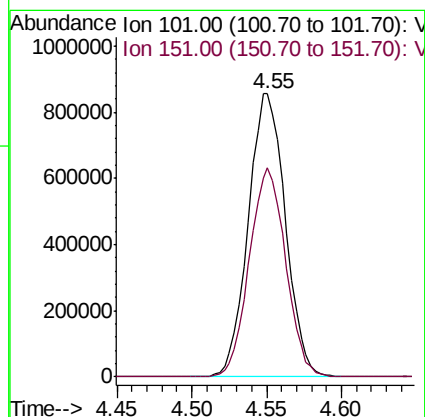
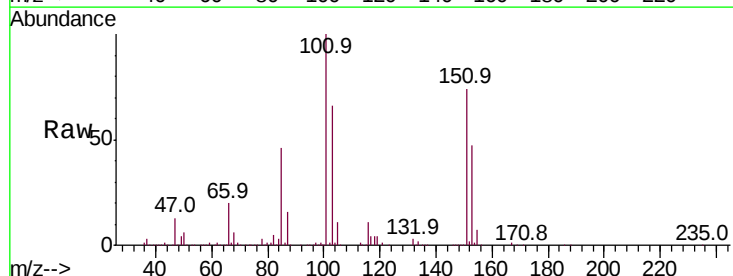
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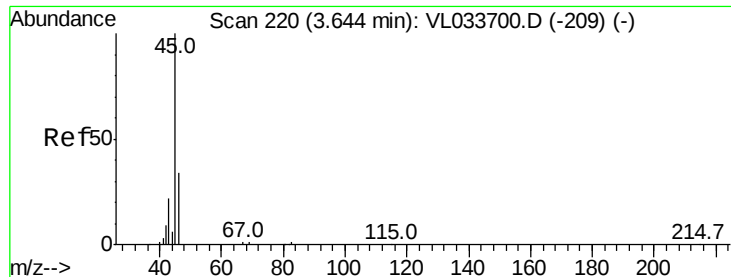
MMDadoda
 5/20/2019 12:05:35 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.350 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion:101 Resp: 1479451
 Ion Ratio Lower Upper
 101 100
 151 72.5 58.2 87.4





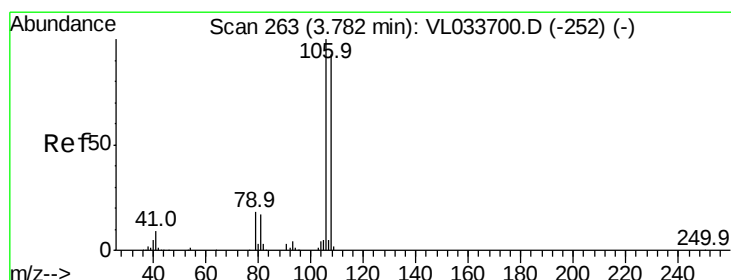
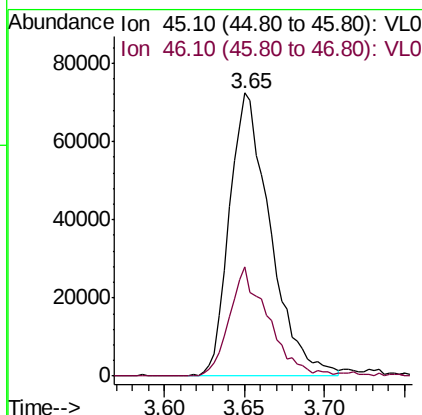
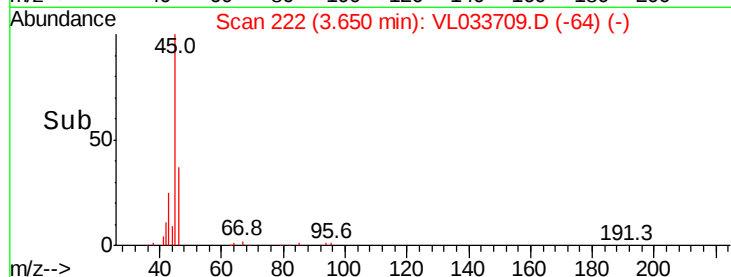
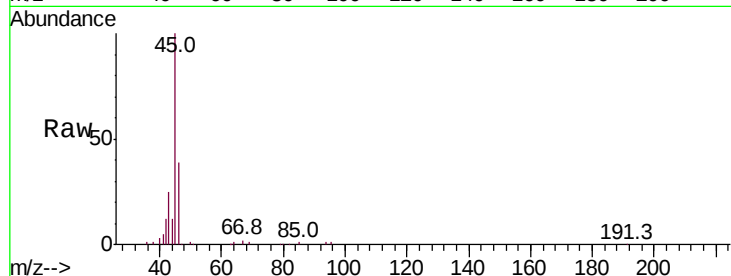
#13
Ethanol
Concen: 7.130 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.7	14.8	59.0

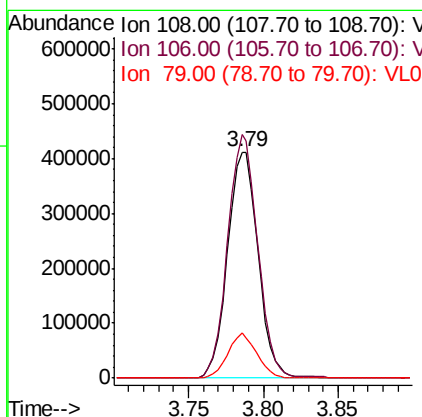
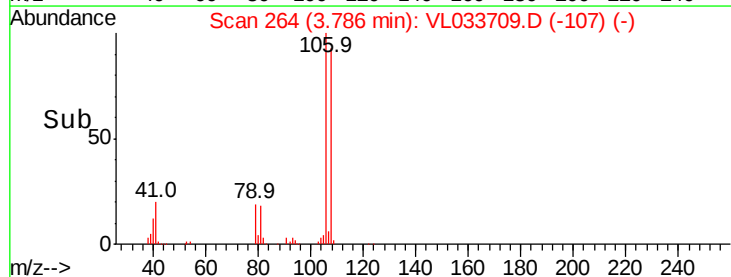
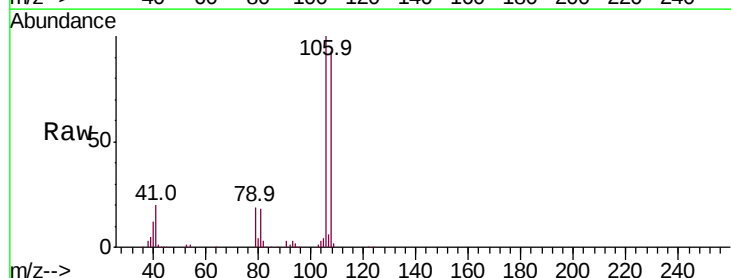
Manual Integrations
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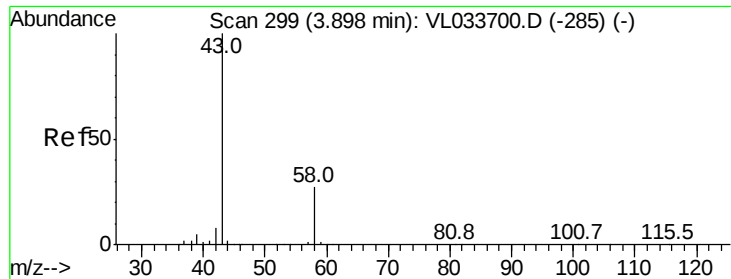
MMDadoda
5/20/2019 12:05:35 PM



#14
Bromoethene
Concen: 10.064 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.7	86.5	129.7
79	19.2	15.1	22.7





#15

Acetone

Concen: 8.680 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 43 Resp: 1356619

Ion Ratio Lower Upper

43 100

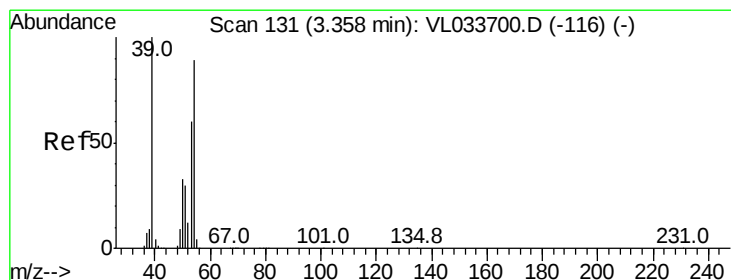
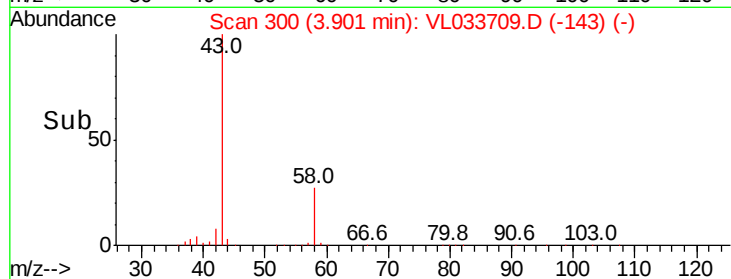
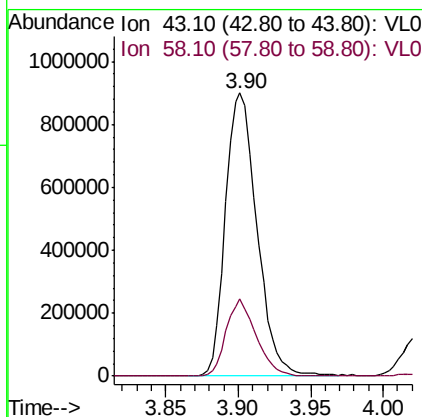
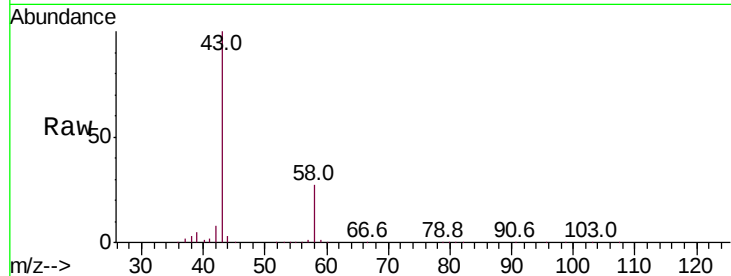
58 26.1 21.3 31.9

Manual Integrations

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#16

1,3-Butadiene

Concen: 10.444 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.01 min

Lab File: VL033709.D

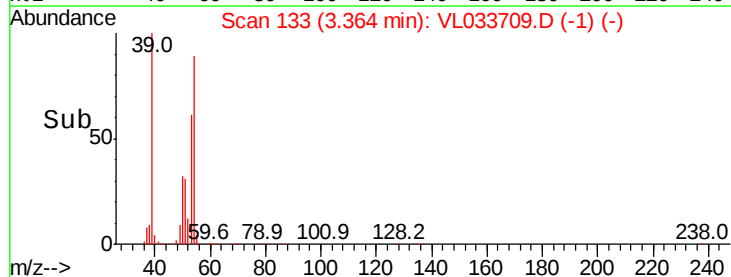
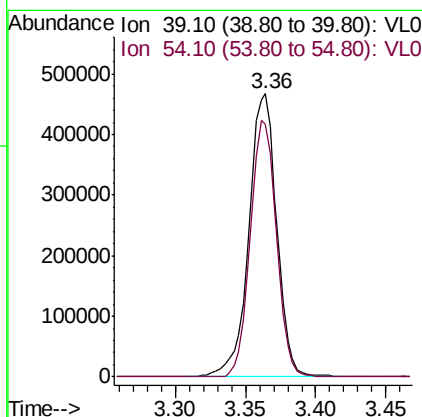
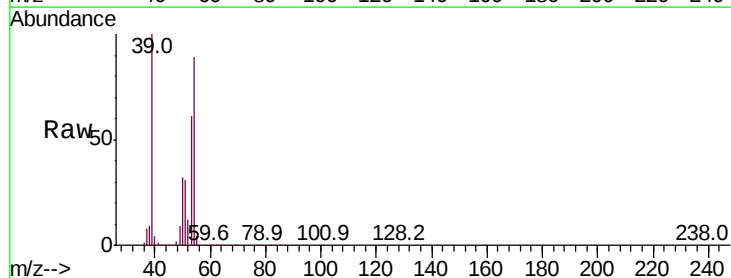
Acq: 17 May 2019 9:09

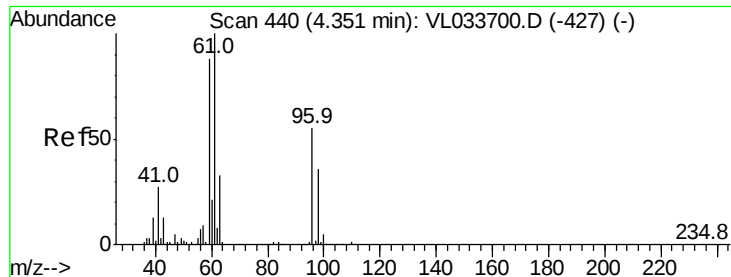
Tgt Ion: 39 Resp: 650053

Ion Ratio Lower Upper

39 100

54 85.1 69.0 103.6





#17

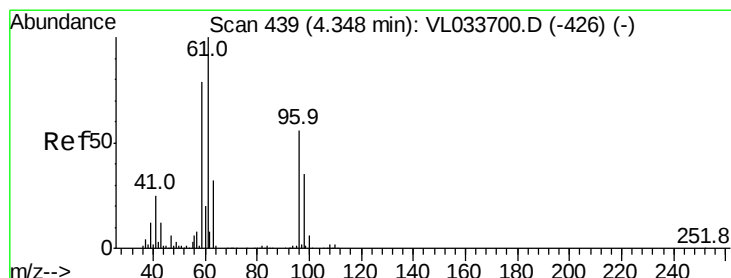
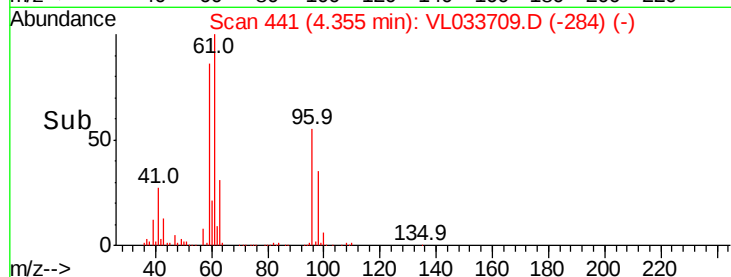
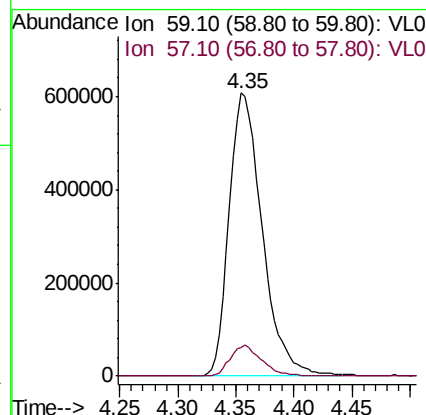
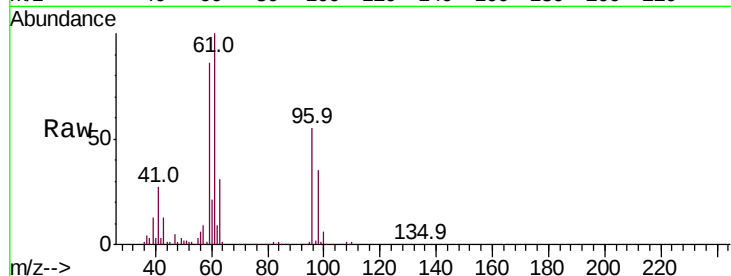
tert-Butyl alcohol
Concen: 9.512 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion: 59 Resp: 1202087
Ion Ratio Lower Upper
59 100
57 10.4 8.4 12.6

Manual Integrations
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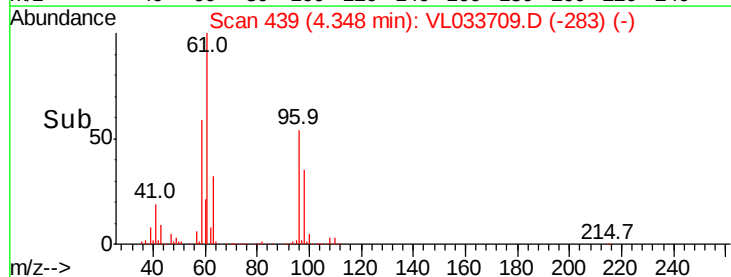
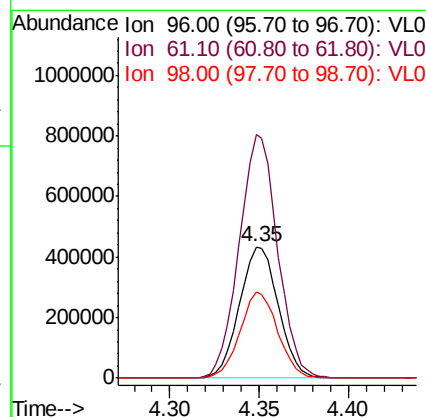
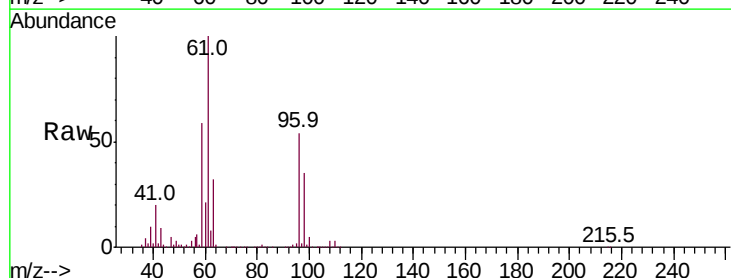
MMDadoda
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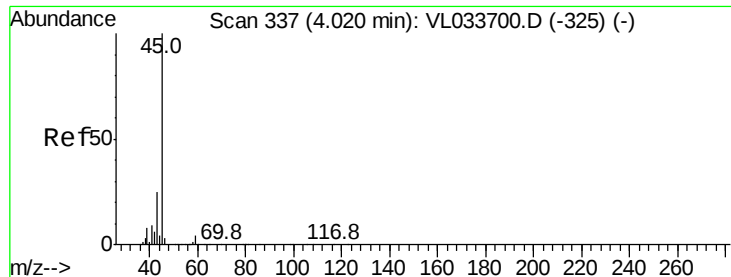


#18

1,1-Dichloroethene
Concen: 9.885 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion: 96 Resp: 660168
Ion Ratio Lower Upper
96 100
61 185.5 143.1 214.7
98 65.3 49.5 74.3





#19

Isopropyl Alcohol

Concen: 8.906 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tot Ion: 45 Resp: 897475

Ion Ratio Lower Upper

45 100

58 2.0 1.6 2.4

Instrument :

MSVOA_L

ClientSampleId :

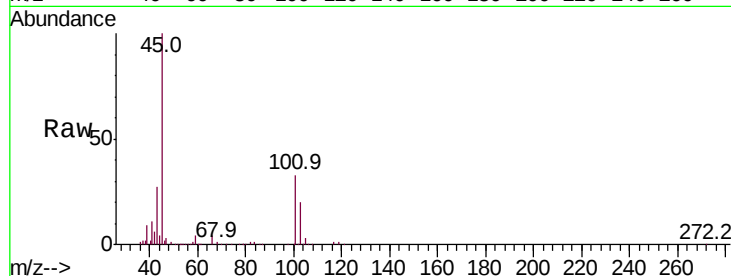
VL0517ABS01

Manual Integrations

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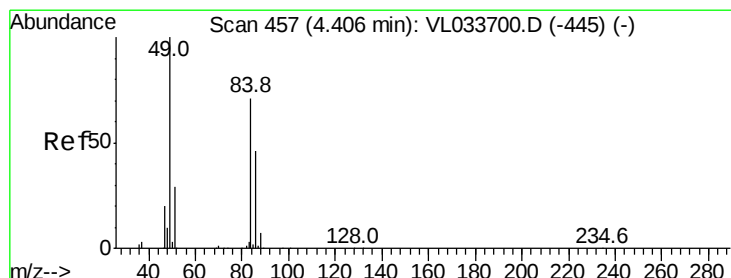
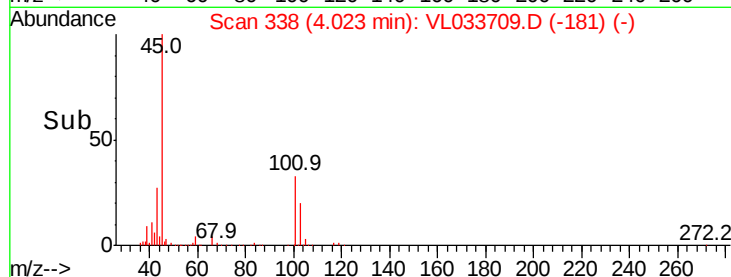
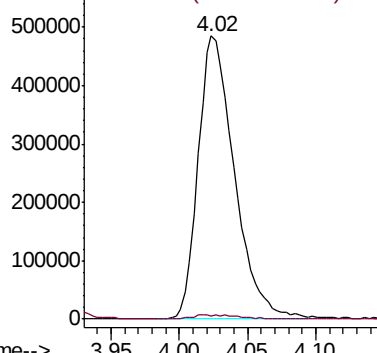
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.245 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion: 84 Resp: 556313

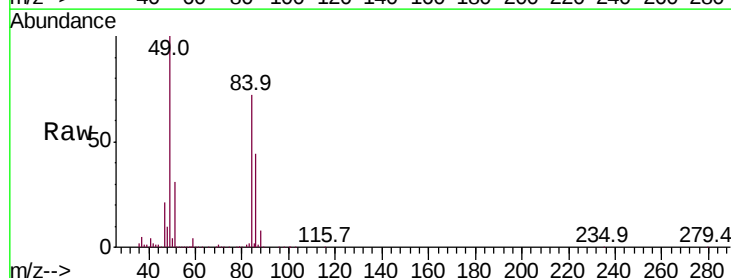
Ion Ratio Lower Upper

84 100

49 138.1 112.8 169.2

51 42.1 33.4 50.0

86 61.9 51.7 77.5

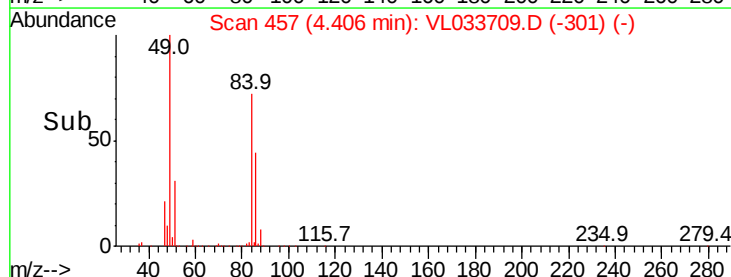
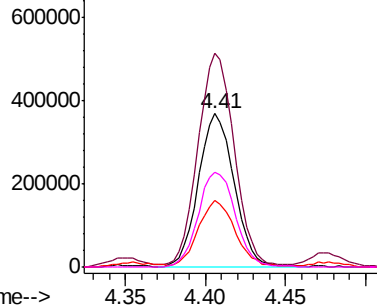


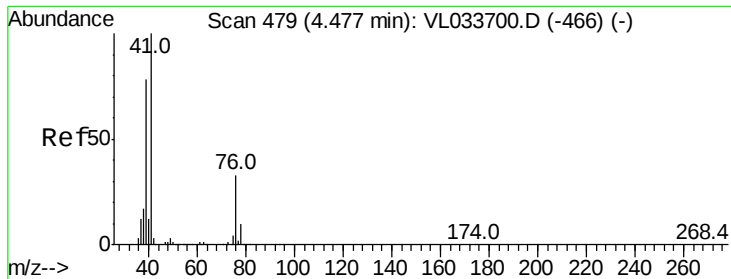
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





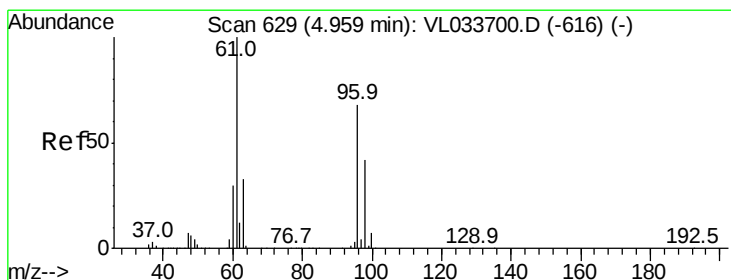
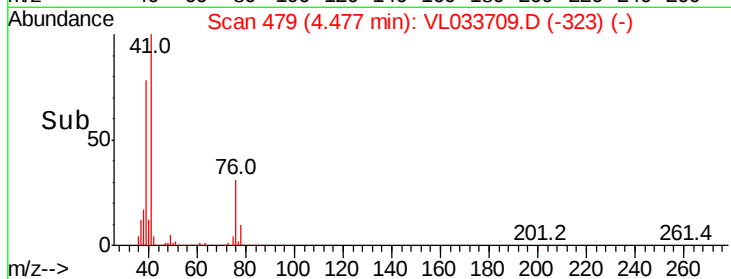
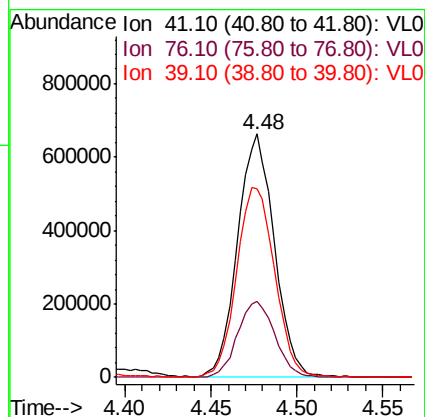
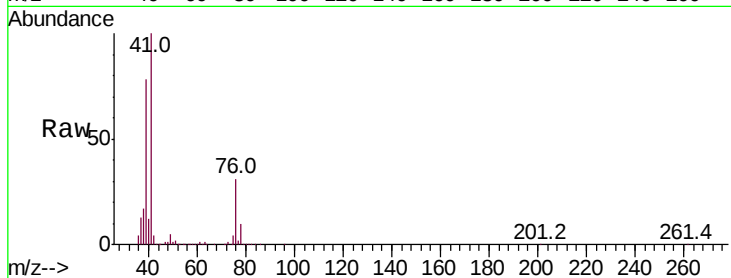
#21
Allvl Chloride
Concen: 10.073 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
76	32.2	25.9	38.9	
39	81.3	64.6	97.0	

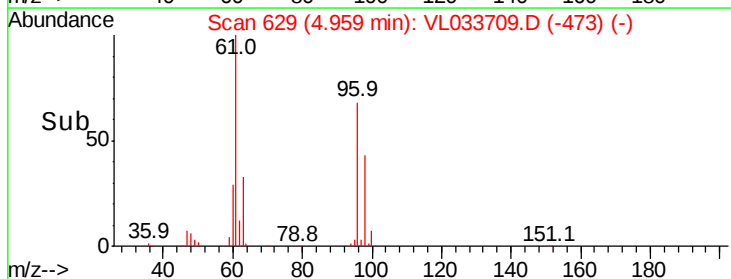
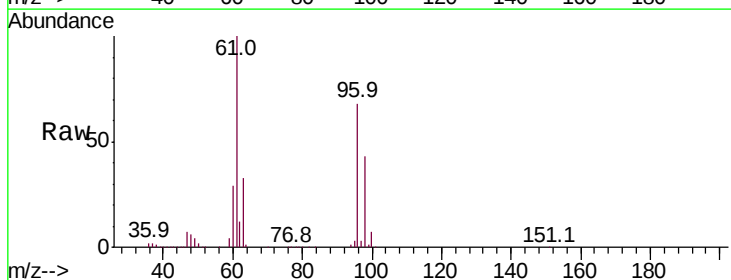
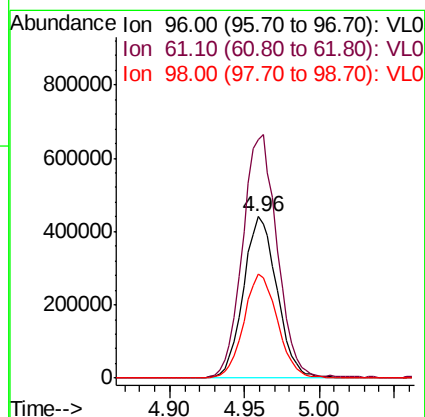
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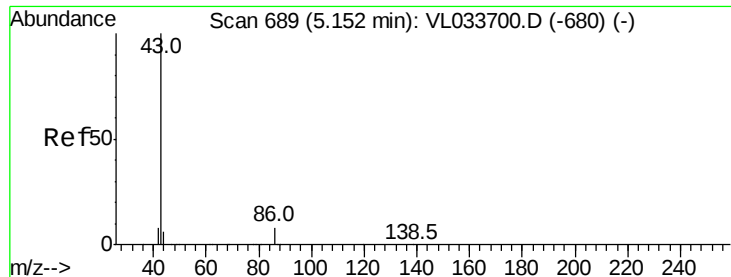
MMDadoda
5/20/2019 12:05:35 PM



#22
trans-1,2-Dichloroethene
Concen: 10.074 ppbv
RT: 4.96 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	147.8	116.8	175.2	
98	64.0	49.4	74.0	





#23

Vinyl Acetate

Concen: 10.726 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 43 Resp: 2210319

Ion Ratio Lower Upper

43 100

86 8.0 6.0 9.0

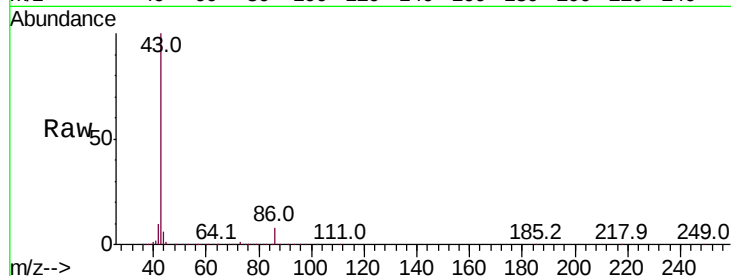
42 10.3 7.5 11.3

44 5.4 4.4 6.6

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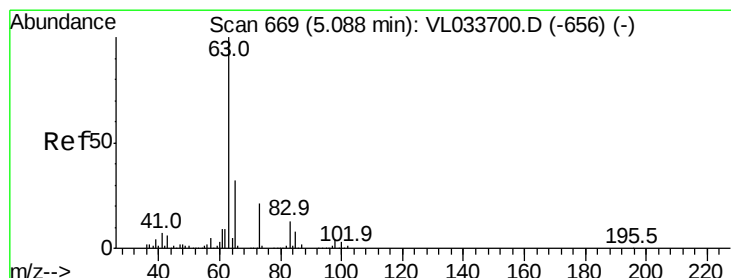
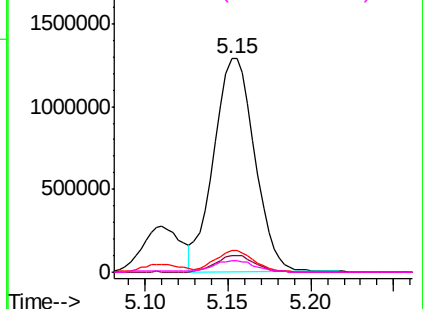
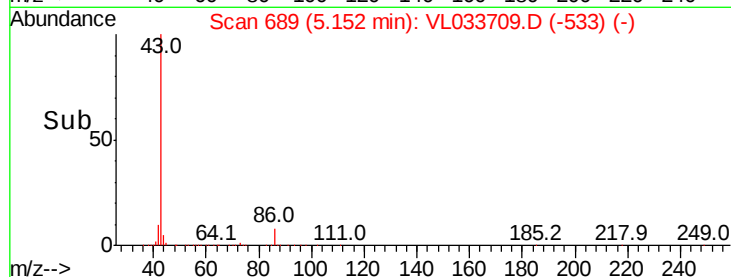


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.650 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

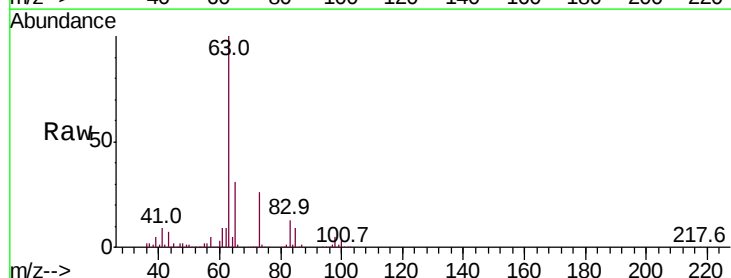
Tgt Ion: 63 Resp: 1511664

Ion Ratio Lower Upper

63 100

98 4.8 1.8 5.5

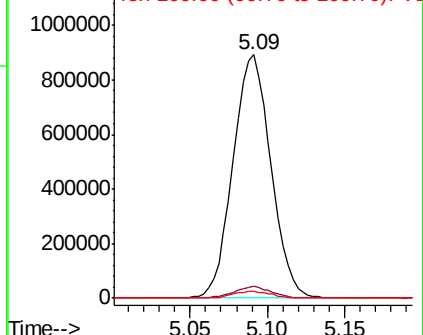
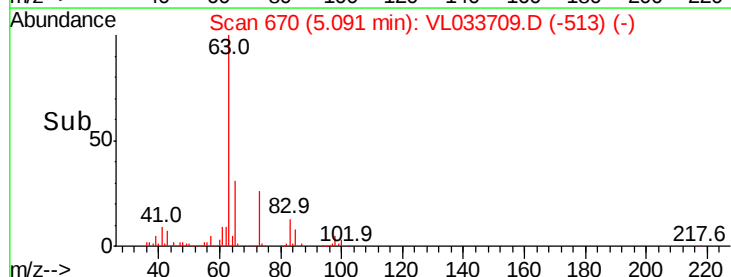
100 2.9 1.4 4.2

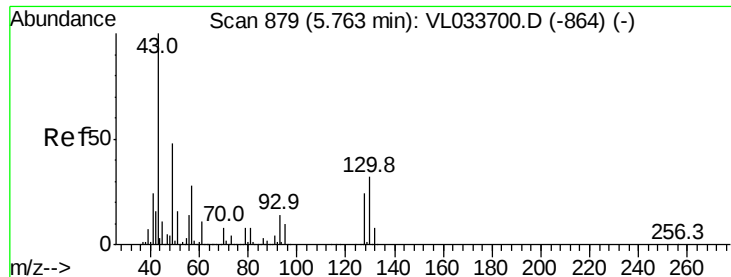


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.012 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tot Ion: 43 Resp: 2474180

Ion Ratio Lower Upper

43 100

45 10.3 7.9 11.9

61 9.6 7.7 11.5

70 7.5 5.8 8.6

Instrument :

MSVOA_L

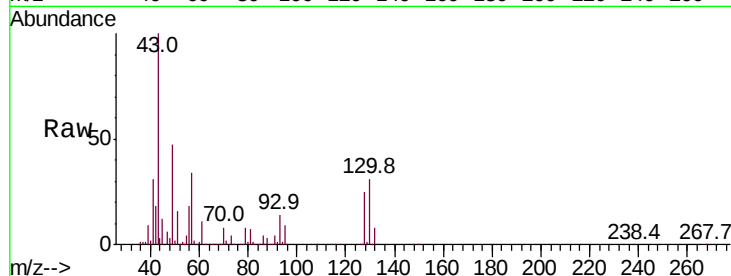
ClientSampleId :

VL0517ABS01

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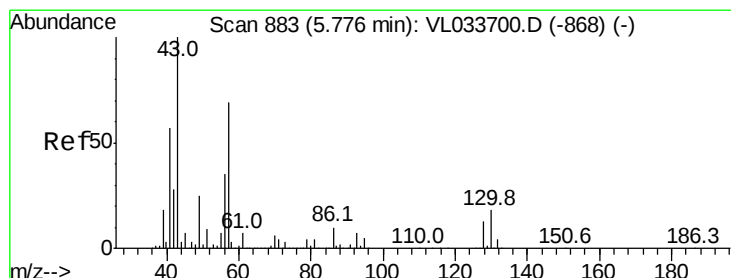
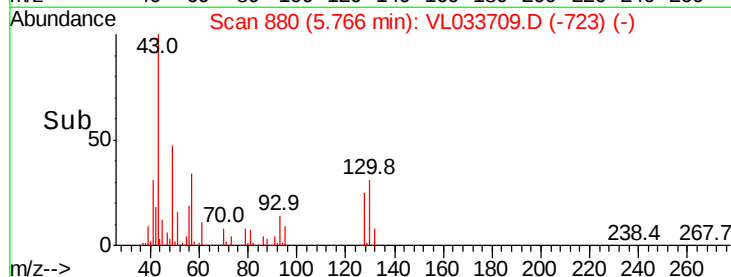
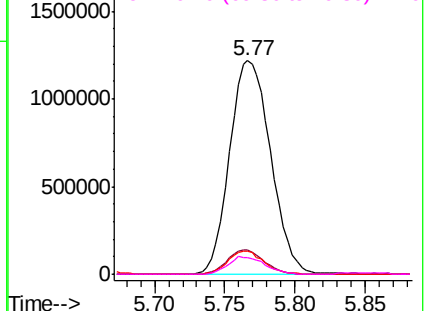


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.172 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion: 57 Resp: 1082569

Ion Ratio Lower Upper

57 100

41 87.9 69.8 104.6

43 230.6 181.8 272.6

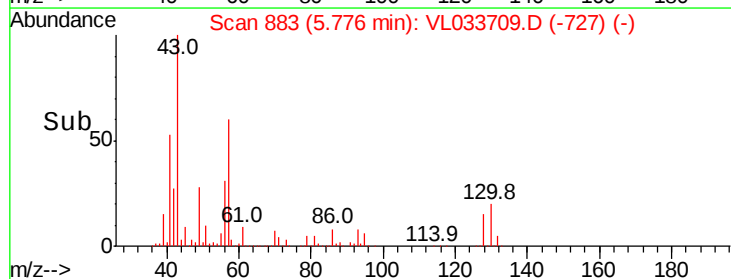
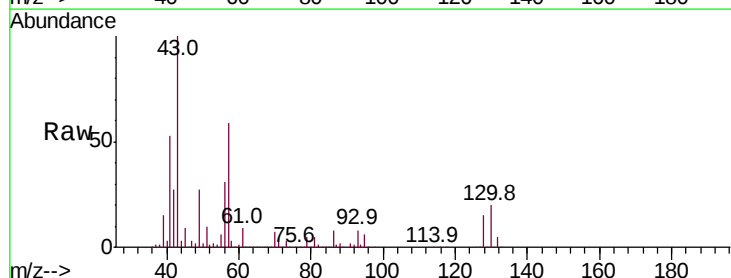
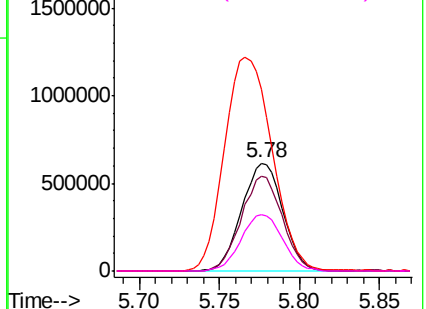
56 53.1 42.1 63.1

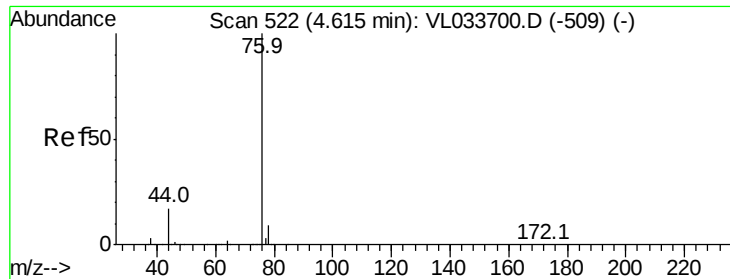
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





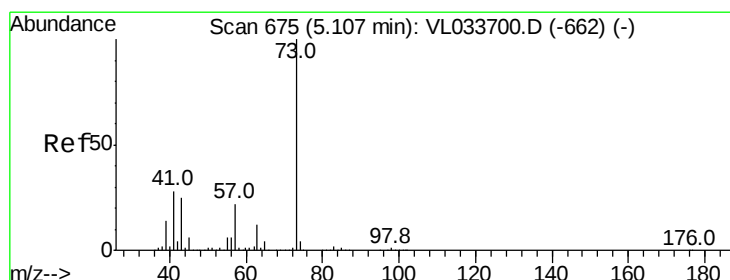
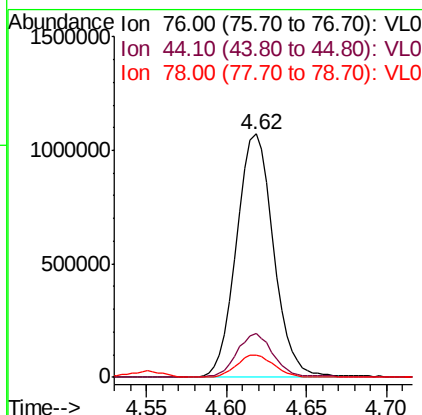
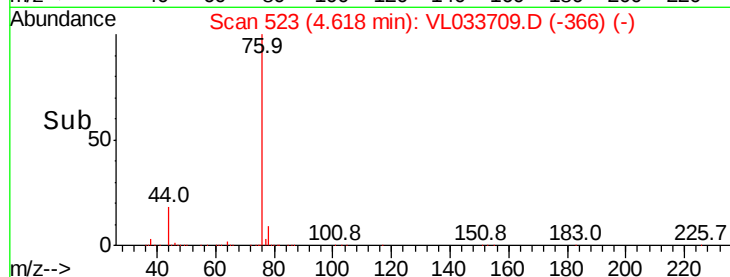
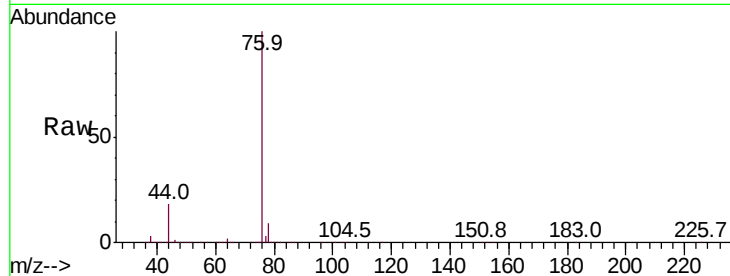
#27
Carbon Disulfide
Concen: 10.404 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion: 76 Resp: 1684691
Ion Ratio Lower Upper
76 100
44 17.3 13.8 20.8
78 9.3 7.4 11.0

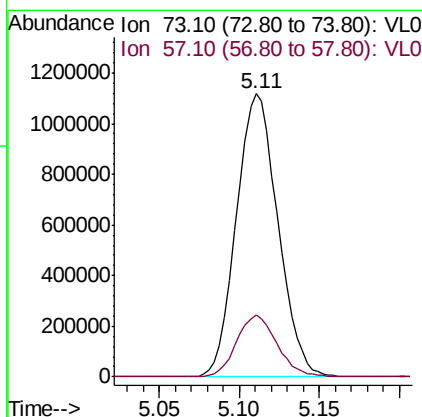
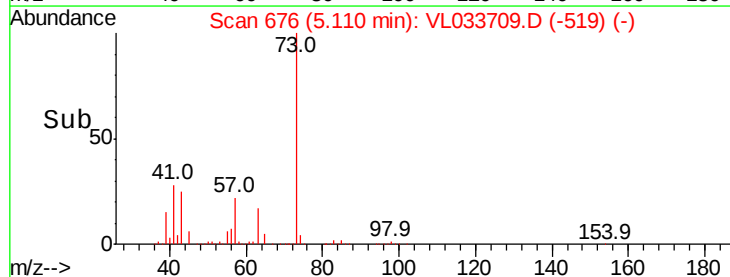
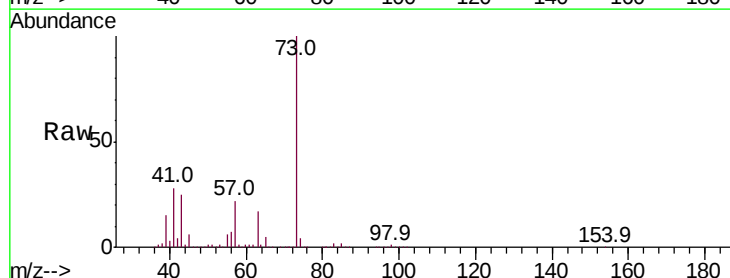
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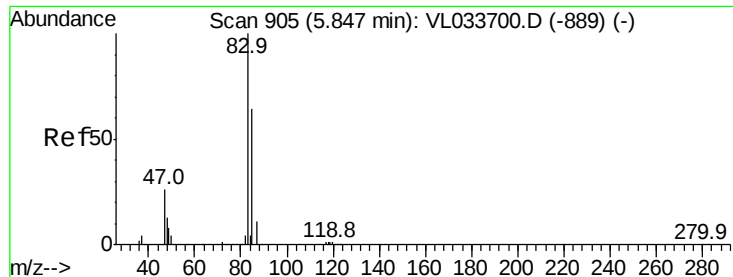
MMDadoda
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#28
Methyl tert-Butyl Ether
Concen: 10.286 ppbv
RT: 5.11 min Scan# 676
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion: 73 Resp: 1979255
Ion Ratio Lower Upper
73 100
57 21.4 17.4 26.2





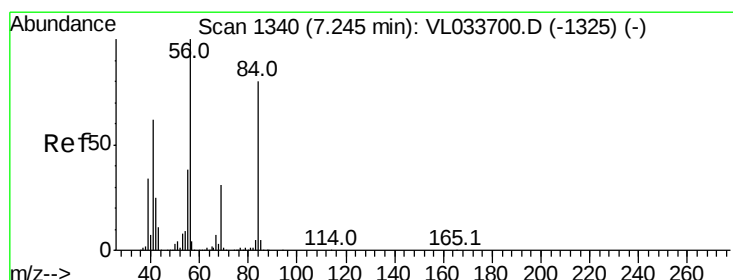
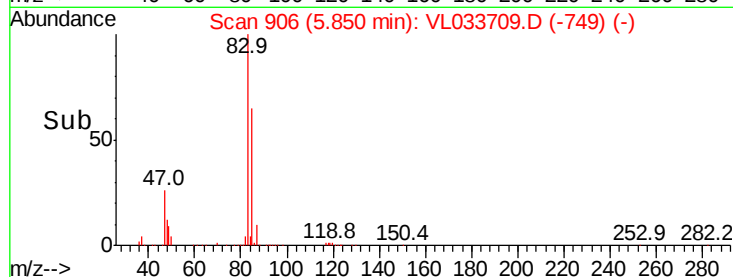
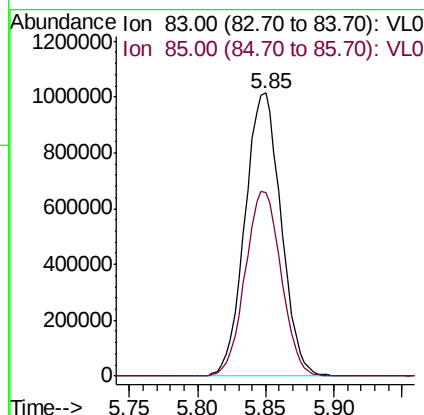
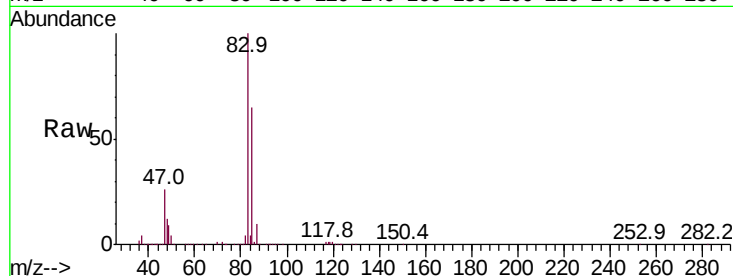
#29
Chloroform
Concen: 8.575 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion: 83 Resp: 1864302
Ion Ratio Lower Upper
83 100
85 64.8 51.5 77.3

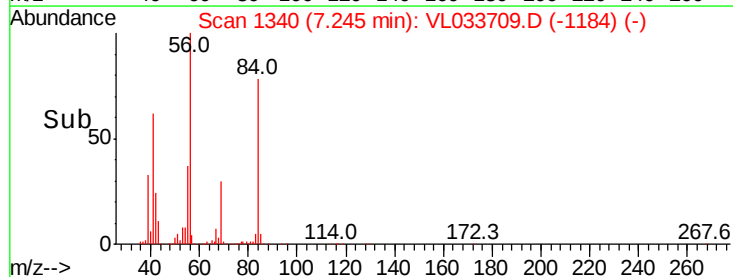
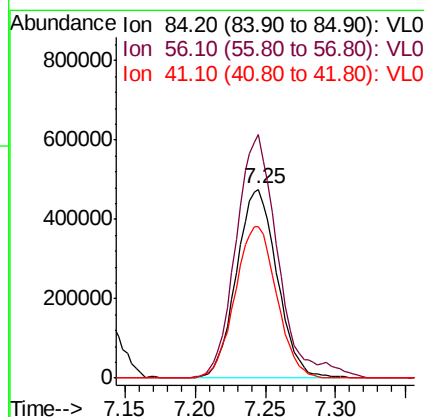
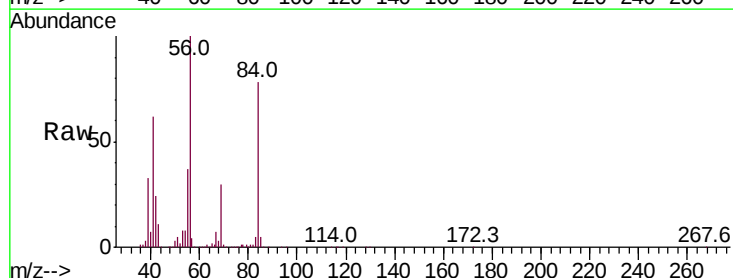
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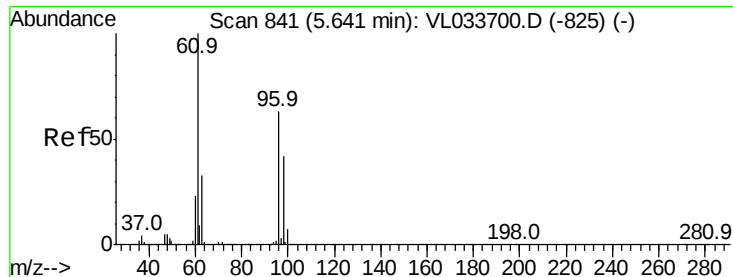
MMDadoda
5/20/2019 12:05:35 PM



#30
Cyclohexane
Concen: 9.702 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion: 84 Resp: 962775
Ion Ratio Lower Upper
84 100
56 133.5 107.7 161.5
41 82.0 66.0 99.0





#31

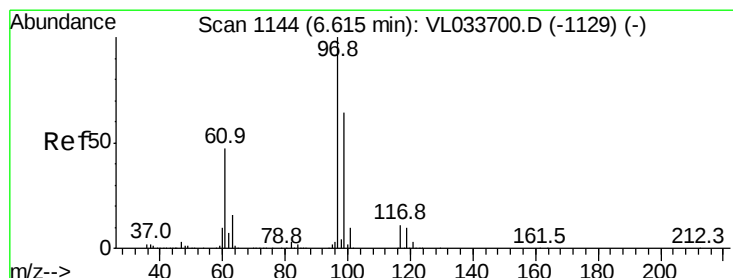
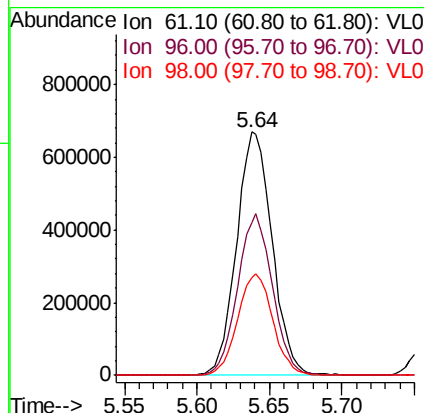
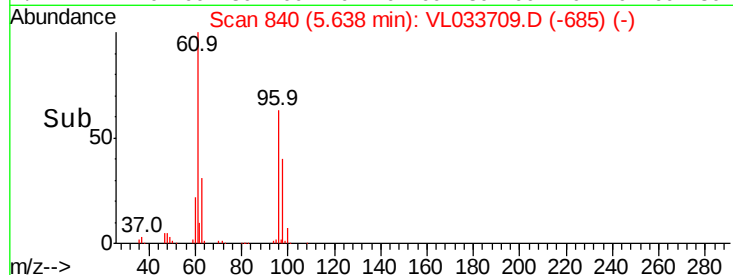
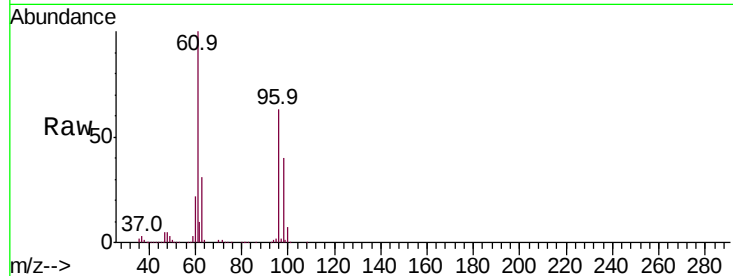
cis-1,2-Dichloroethene
 Concen: 9.746 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.8	76.2
98	39.9	33.3	49.9

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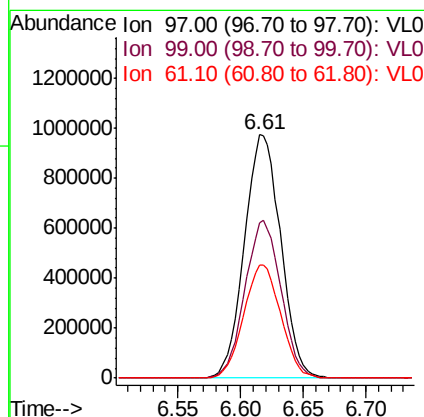
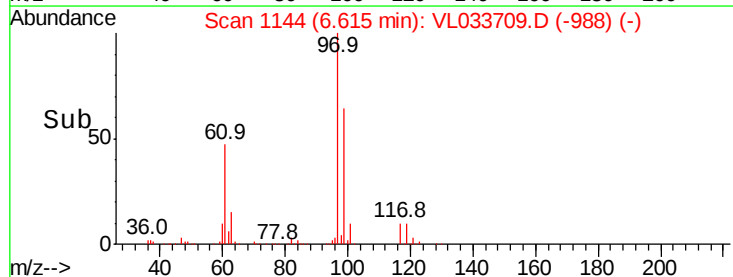
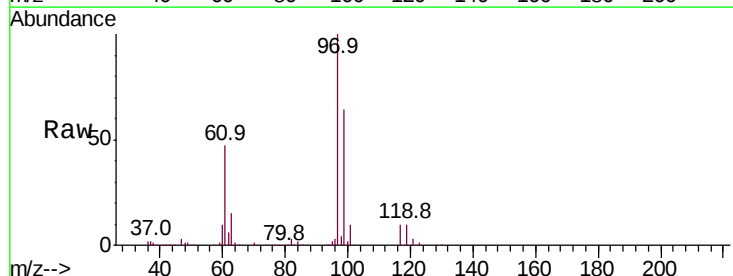
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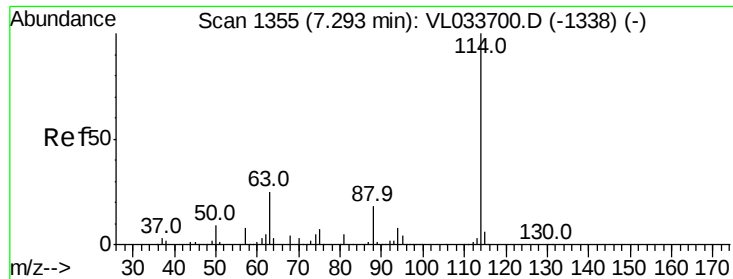


#32

1,1,1-Trichloroethane
 Concen: 9.037 ppbv
 RT: 6.61 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	47.6	37.8	56.8





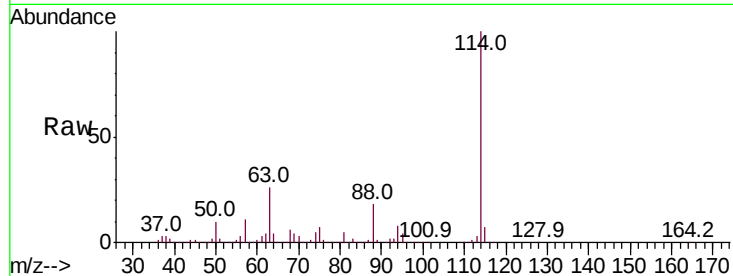
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

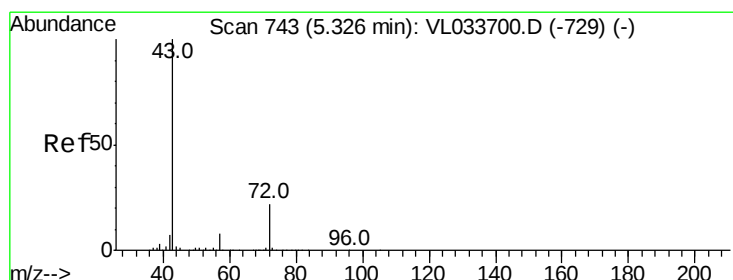
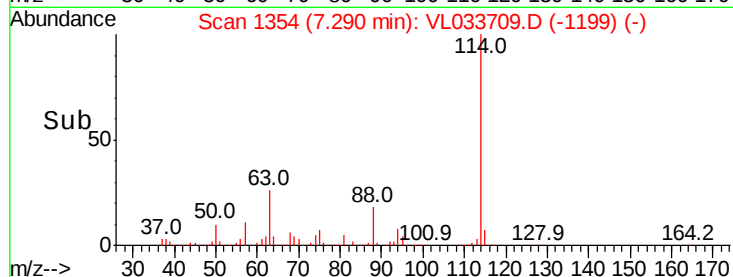
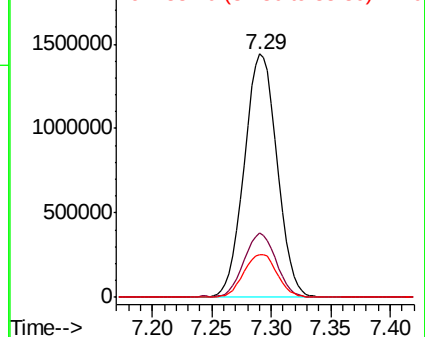
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.9	31.3
88	18.1	14.3	21.5

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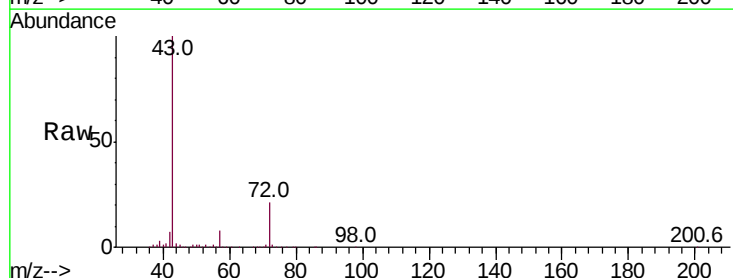


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

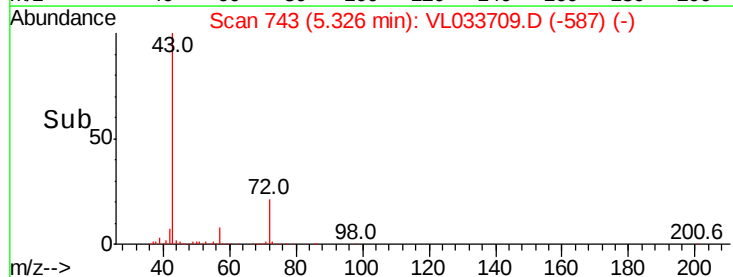
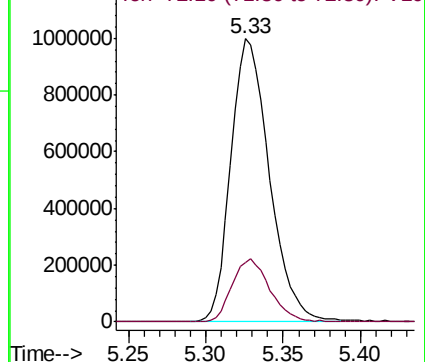


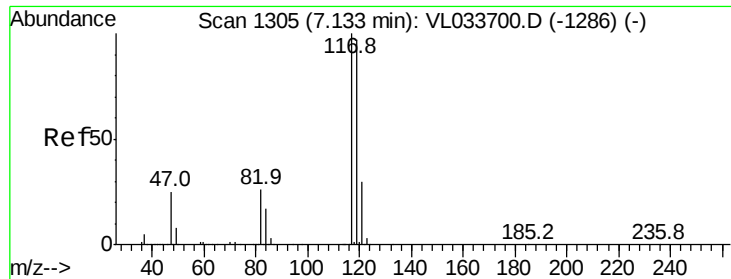
#34
 2-Butanone
 Concen: 10.035 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	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: 9.582 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

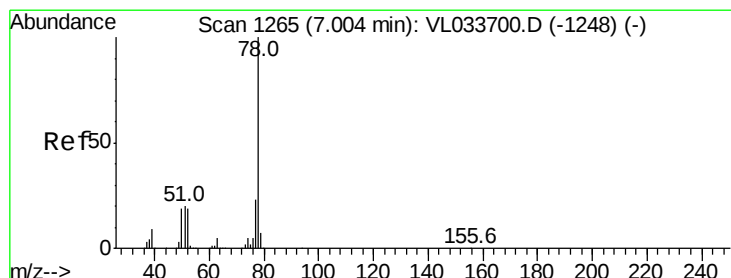
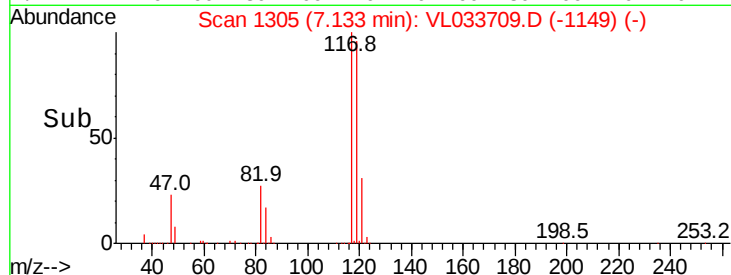
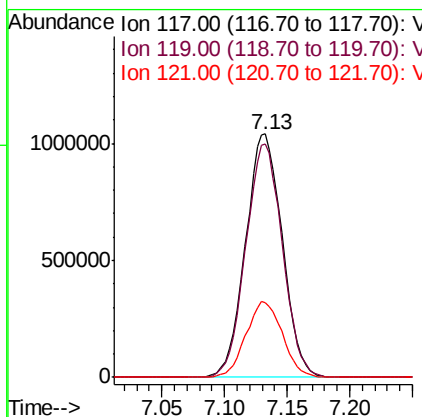
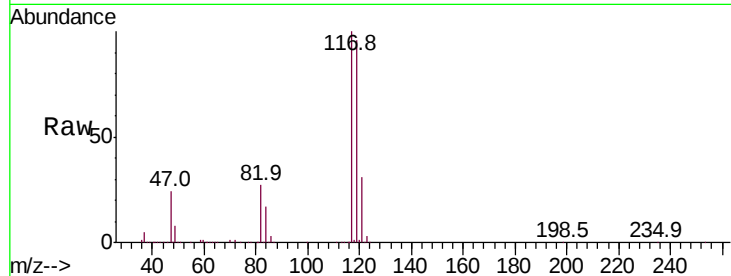
ClientSampled :

VL0517ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.2	115.8
121	30.7	24.1	36.1

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#36

Benzene

Concen: 9.354 ppbv

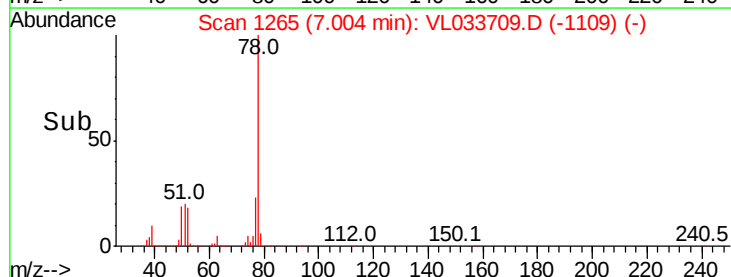
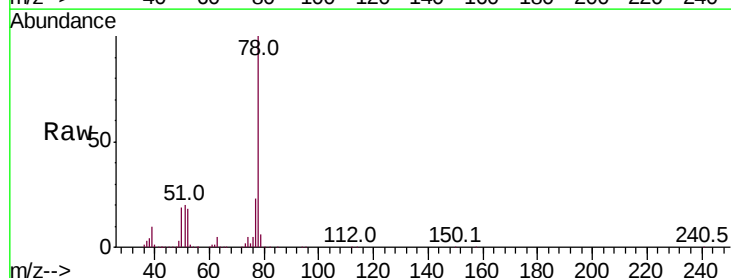
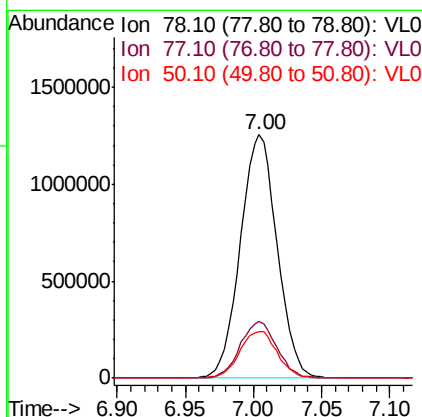
RT: 7.00 min Scan# 1265

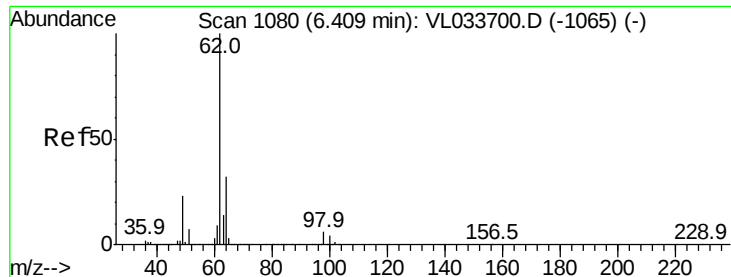
Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.4	27.6
50	19.2	15.5	23.3





#37

1,2-Dichloroethane

Concen: 8.865 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 62 Resp: 1434478

Ion Ratio Lower Upper

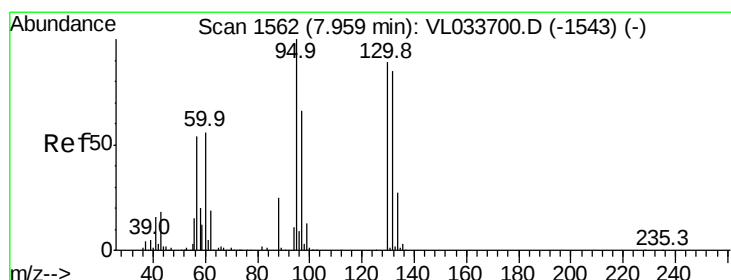
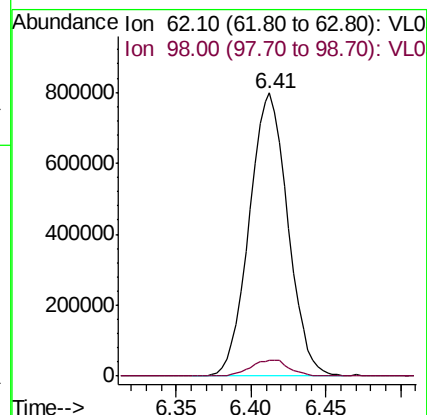
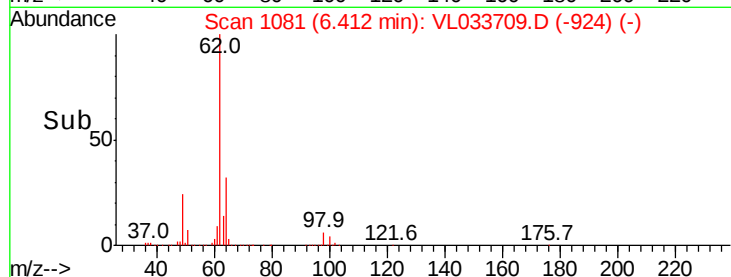
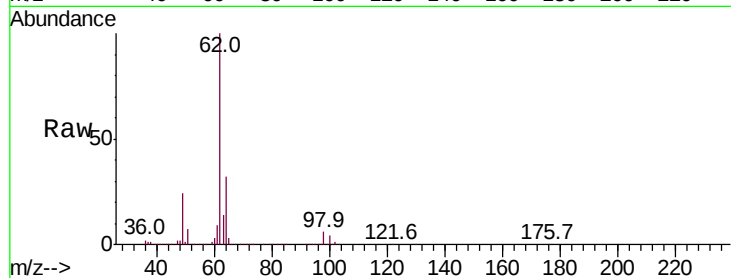
62 100

98 5.7 4.5 6.7

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#38

Trichloroethene

Concen: 10.075 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion: 130 Resp: 937858

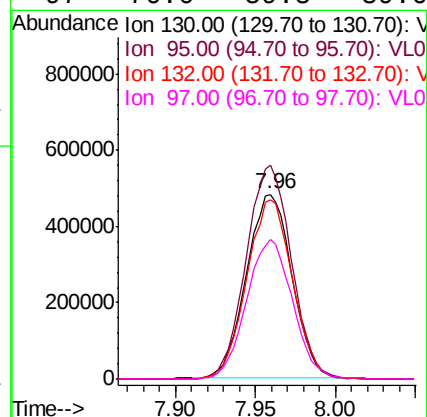
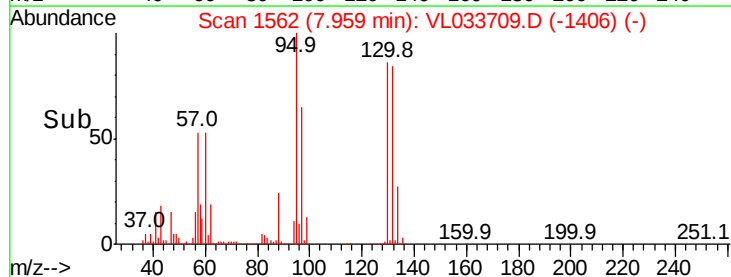
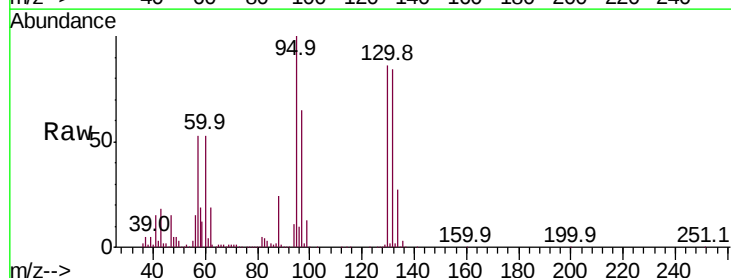
Ion Ratio Lower Upper

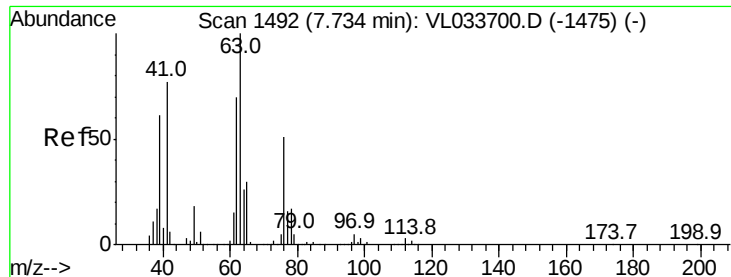
130 100

95 116.2 90.2 135.4

132 97.6 76.4 114.6

97 76.0 59.8 89.6





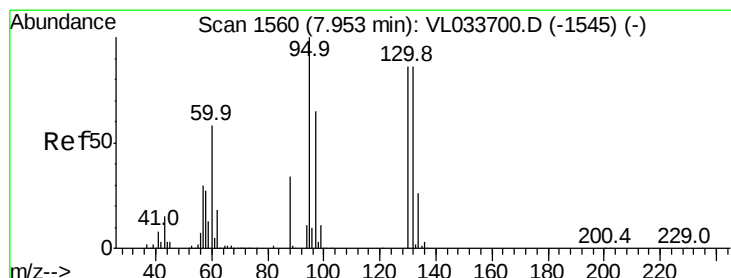
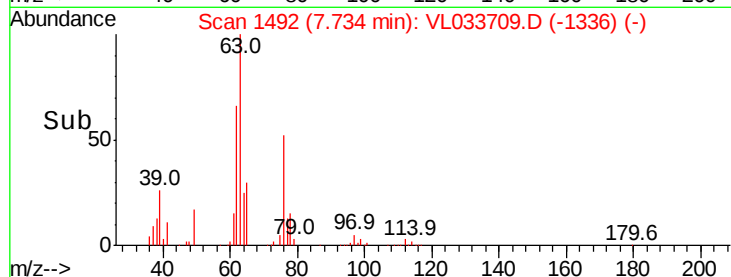
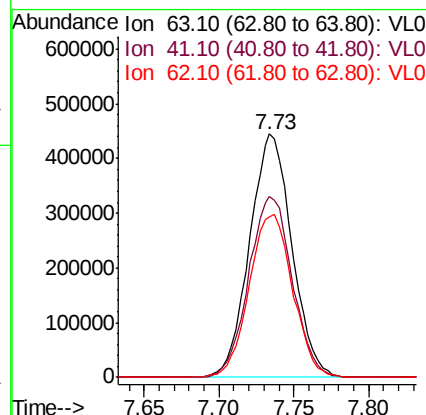
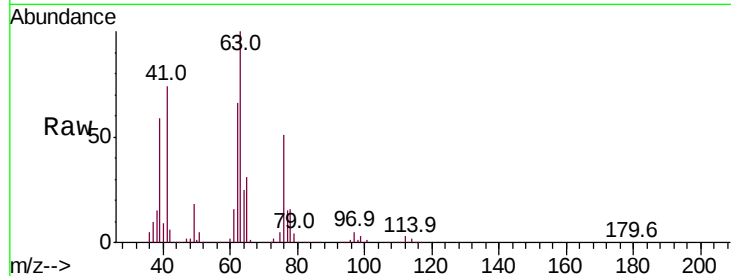
#39
 1,2-Dichloropropane
 Concen: 9.319 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.2	61.5	92.3
62	66.1	56.2	84.4

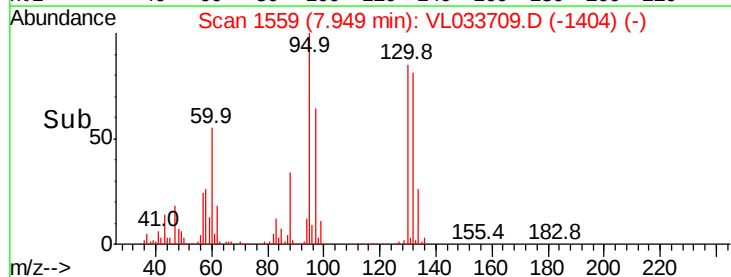
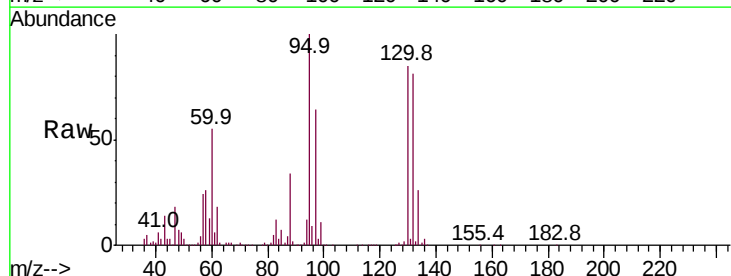
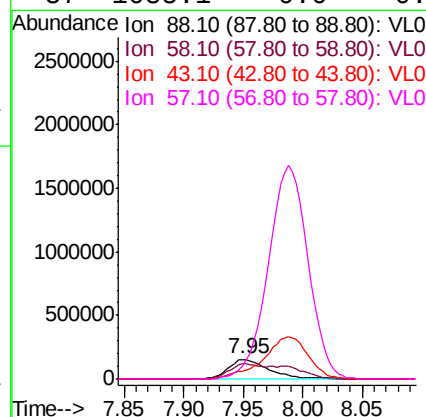
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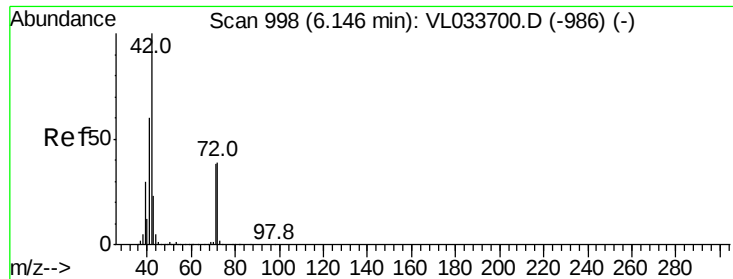
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#40
 1,4-Dioxane
 Concen: 9.185 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
88	100		
58	121.7	101.8	152.6
43	241.5	0.0	0.0#
57	1085.1	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.634 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

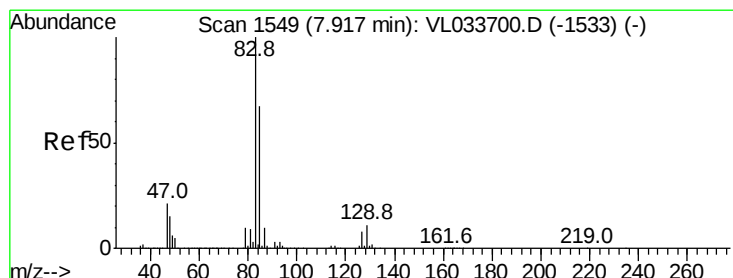
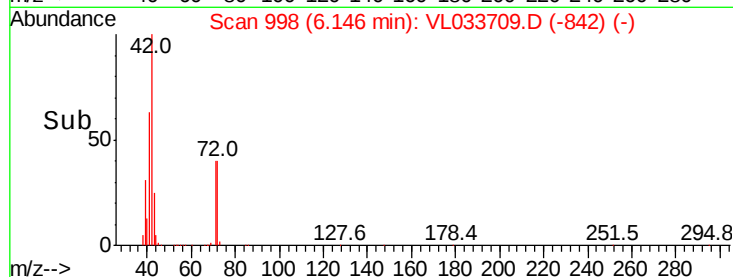
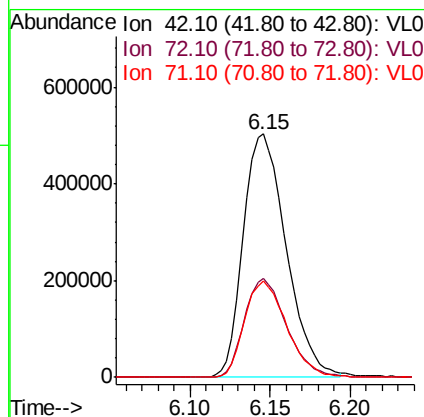
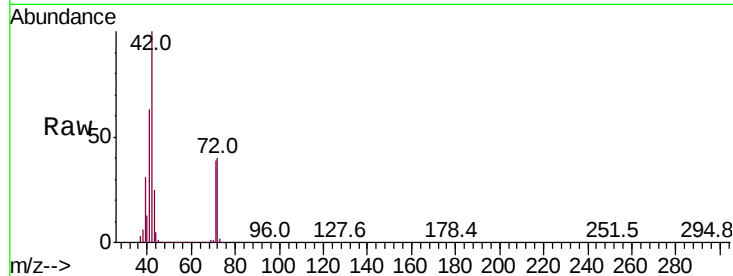
ClientSampleId :

VL0517ABS01

Tot Ion:	42	Resp:	922660
Ion Ratio	Lower	Upper	
42	100		
72	39.9	32.0	48.0
71	39.0	30.4	45.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.505 ppbv

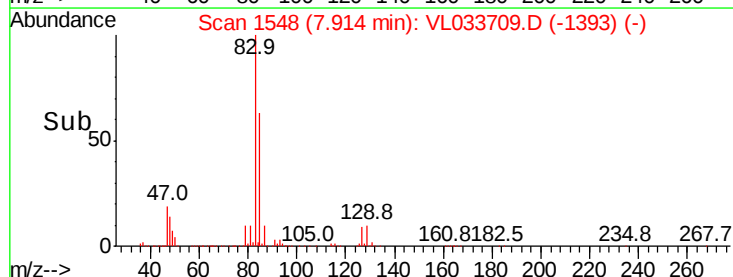
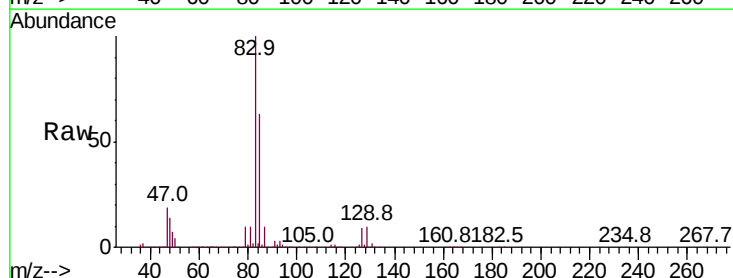
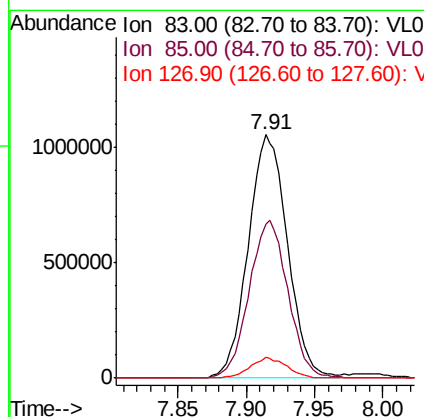
RT: 7.91 min Scan# 1548

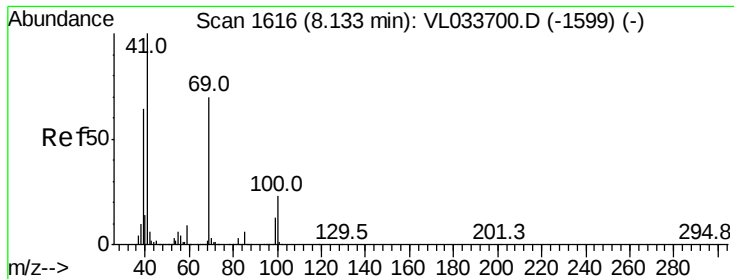
Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion:	83	Resp:	2105685
Ion Ratio	Lower	Upper	
83	100		
85	63.4	53.3	79.9
127	8.5	6.5	9.7





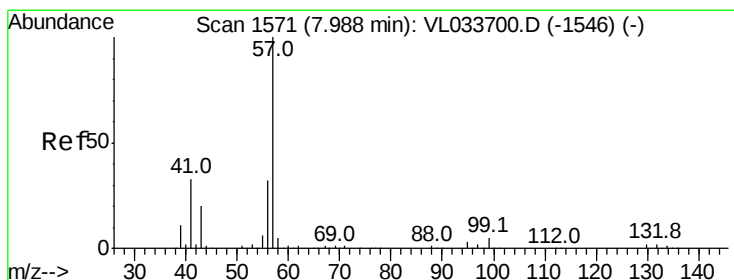
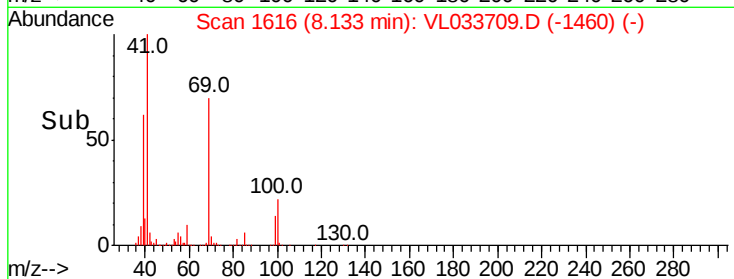
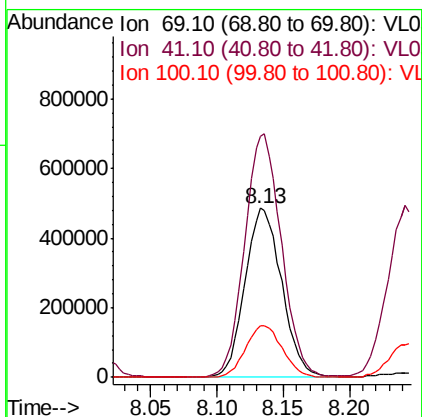
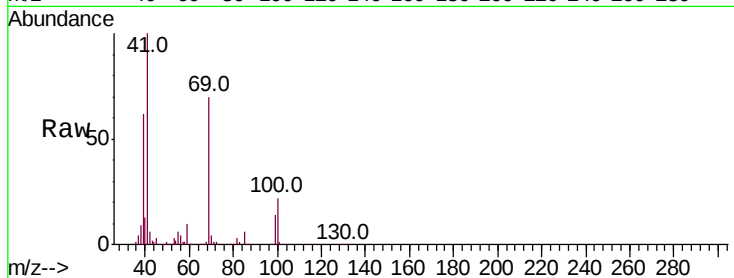
#43
Methvl Methacrylate
Concen: 10.121 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.0	116.3	174.5
100	30.7	25.3	37.9

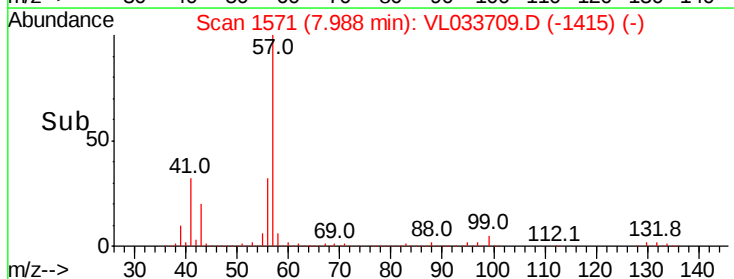
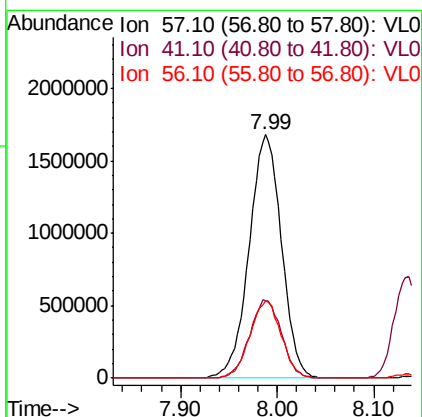
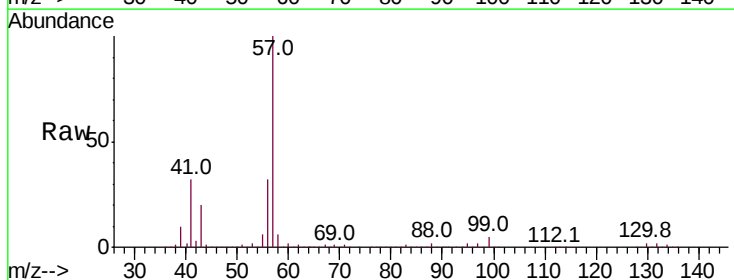
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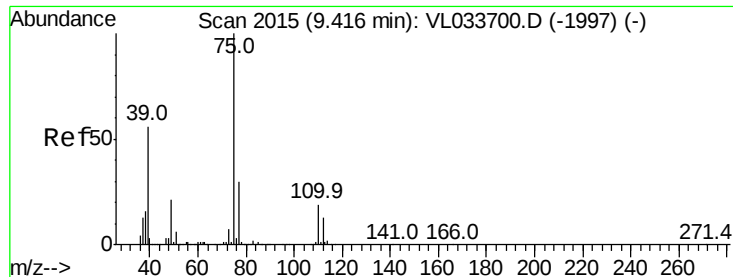
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.191 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.8	25.4	38.0
56	31.0	24.7	37.1





#45

t-1,3-Dichloropropene

Concen: 11.761 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 75 Resp: 1376457

Ion Ratio Lower Upper

75 100

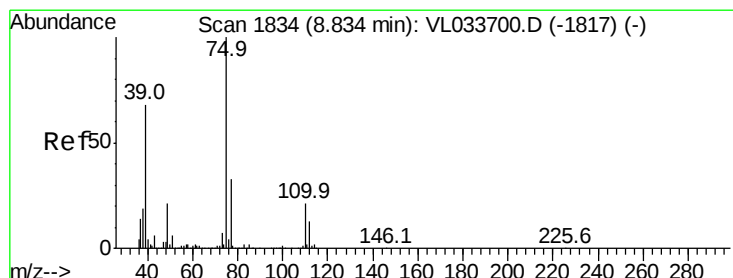
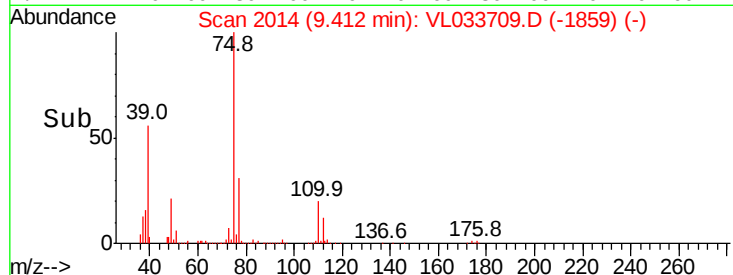
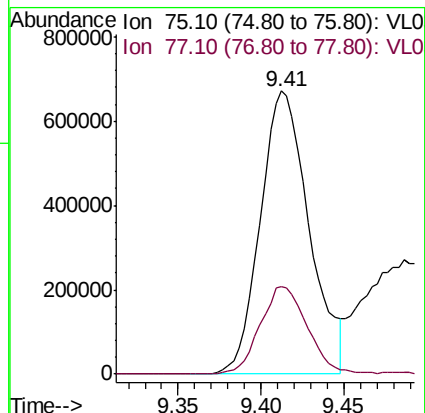
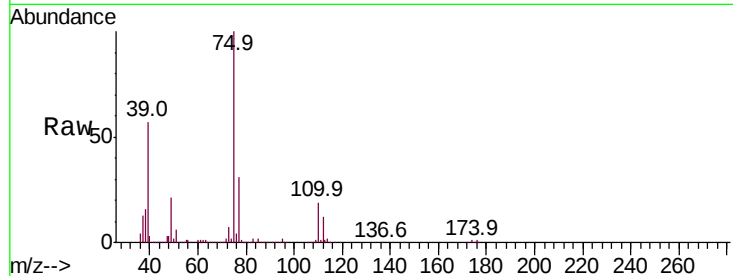
77 30.8 24.4 36.6

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#46

cis-1,3-Dichloropropene

Concen: 10.519 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

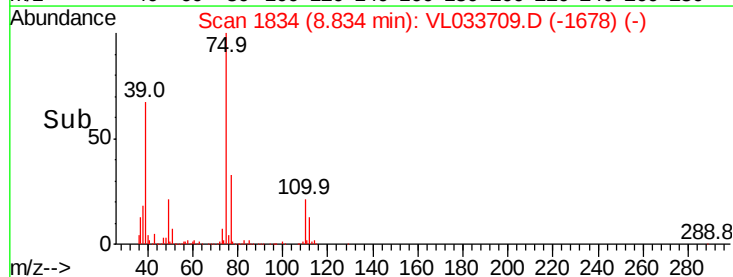
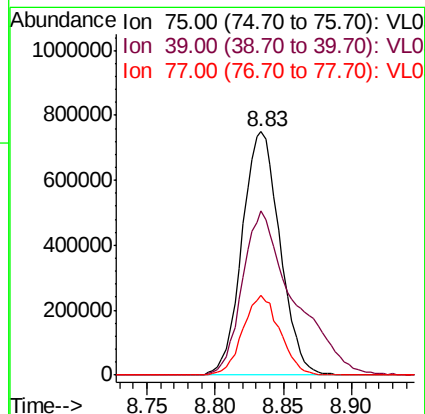
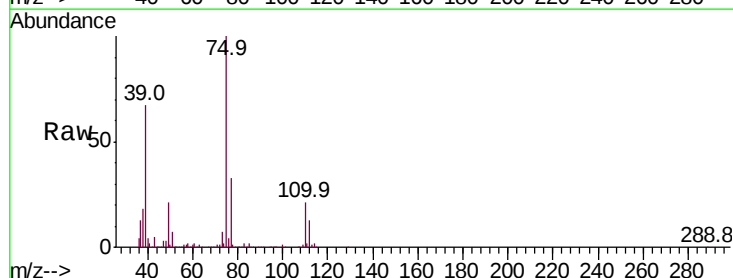
Tgt Ion: 75 Resp: 1441561

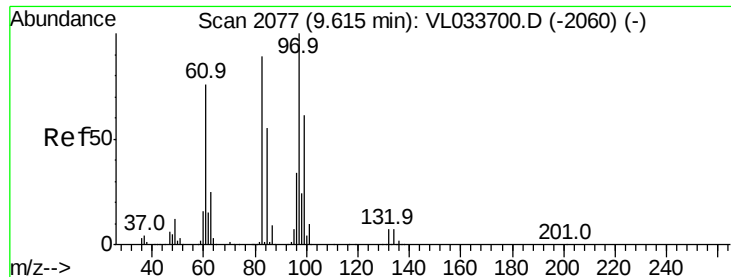
Ion Ratio Lower Upper

75 100

39 67.2 54.4 81.6

77 32.6 26.6 39.8





#47

1,1,2-Trichloroethane

Concen: 9.253 ppbv

RT: 9.61 min Scan# 2076

Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

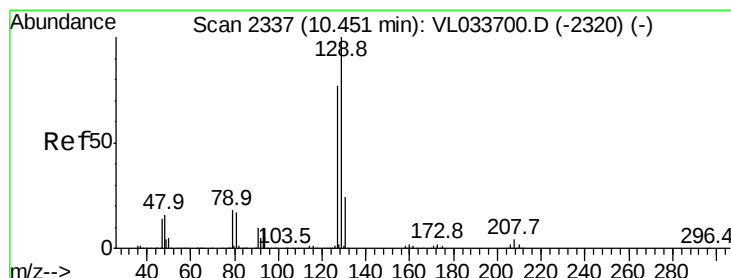
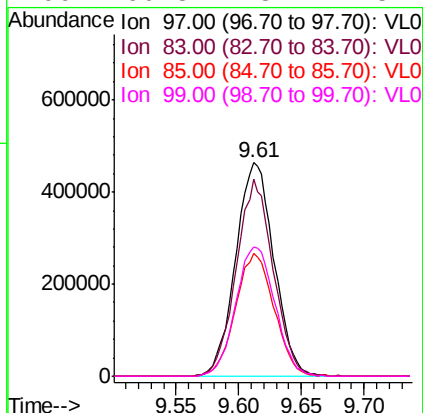
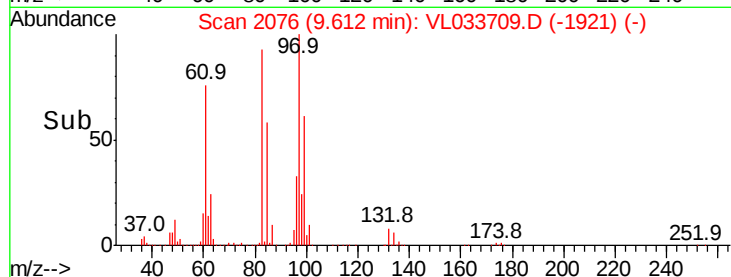
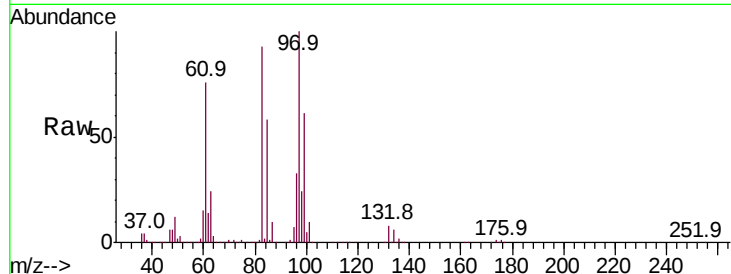
ClientSampleId :

VL0517ABS01

Tot Ion:	97	Resp:	983169
Ion Ratio	Lower	Upper	
97	100		
83	92.3	70.8	106.2
85	57.7	43.7	65.5
99	60.8	48.7	73.1

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#48

Dibromochloromethane

Concen: 9.772 ppbv

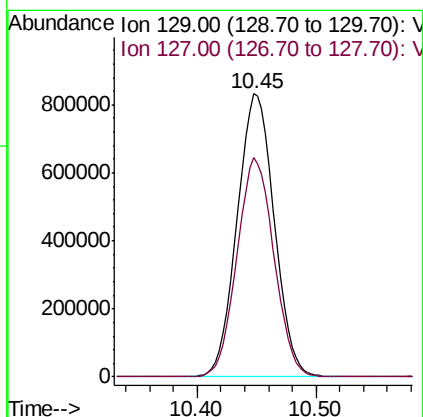
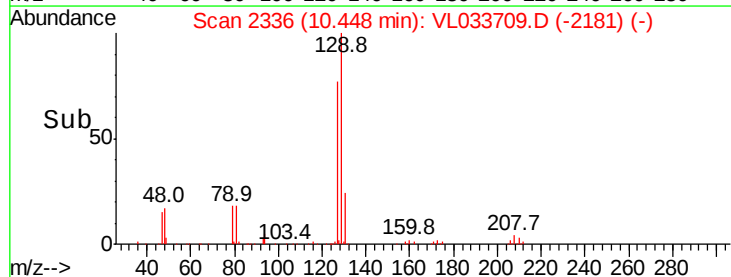
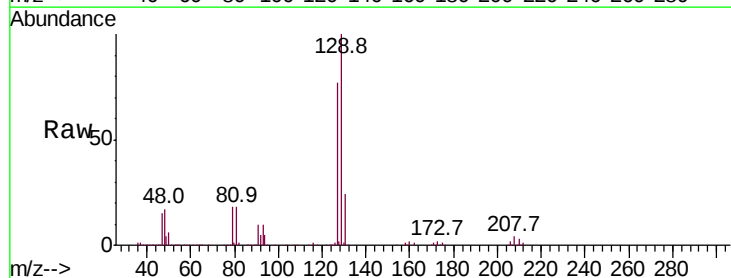
RT: 10.45 min Scan# 2336

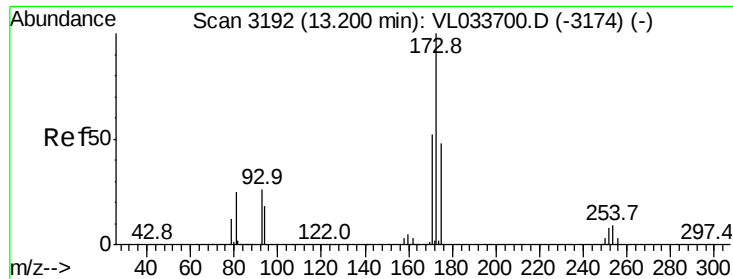
Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion:	129	Resp:	1798925
Ion Ratio	Lower	Upper	
129	100		
127	77.1	38.6	116.0





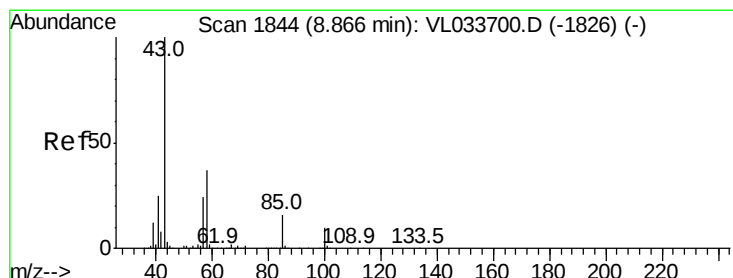
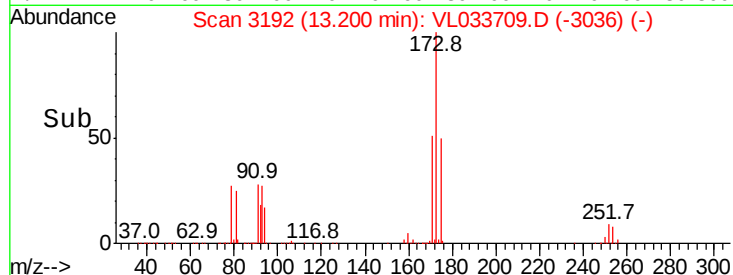
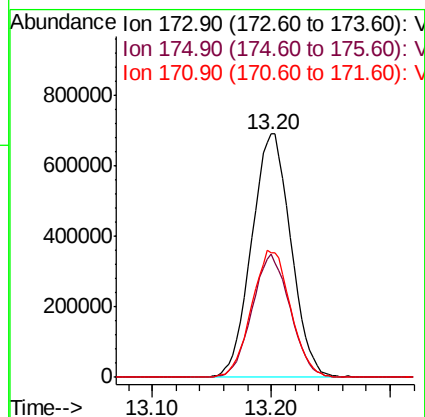
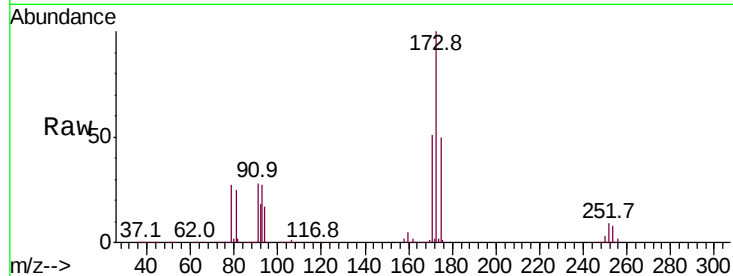
#49
Bromoform
Concen: 10.170 ppbv
RT: 13.20 min Scan# 3192
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	38.6	58.0
171	51.9	41.5	62.3

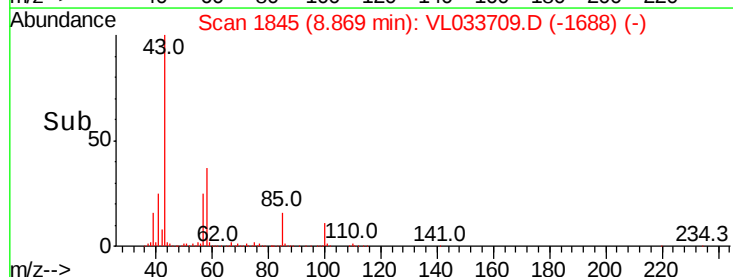
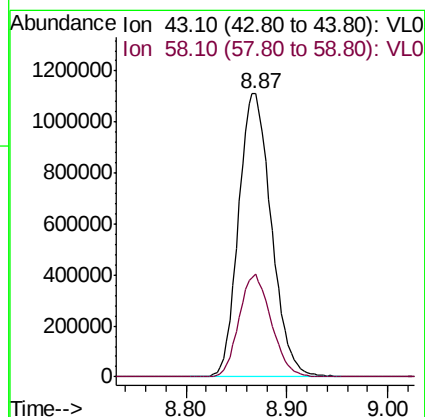
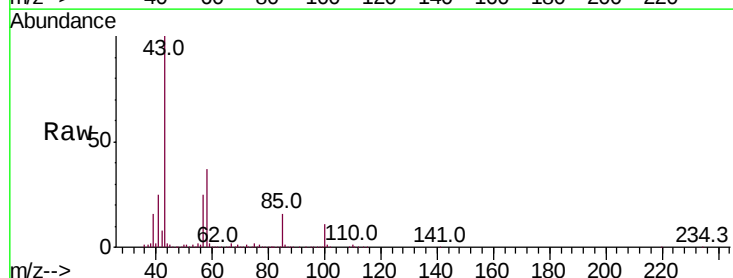
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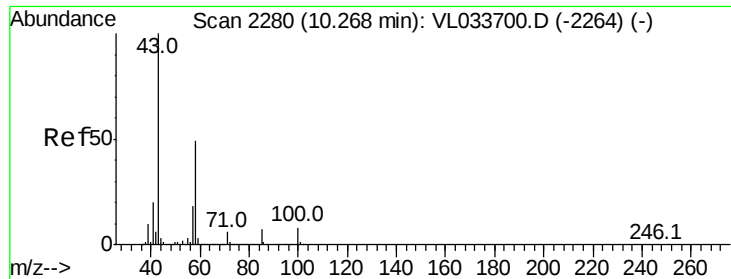
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#50
4-Methyl-2-Pentanone
Concen: 9.513 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.6	43.0





#51

2-Hexanone

Concen: 10.093 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 43 Resp: 2071161

Ion Ratio Lower Upper

43 100

58 48.7 38.7 58.1

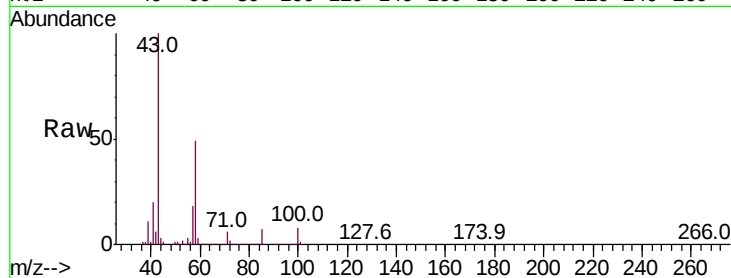
98 0.1 0.2 0.4#

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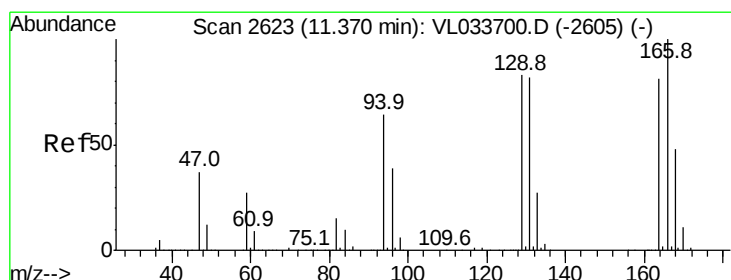
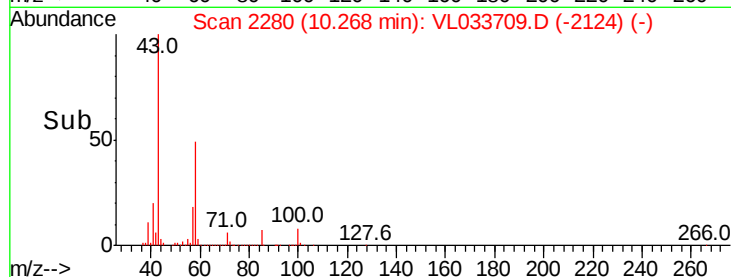
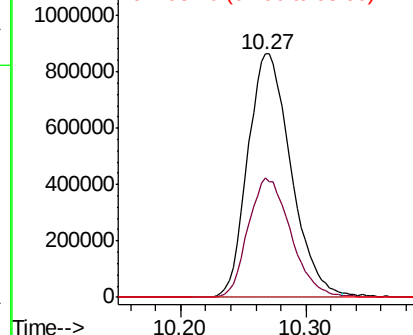


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.257 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion: 164 Resp: 904476

Ion Ratio Lower Upper

164 100

166 125.5 98.9 148.3

129 101.2 81.8 122.6

131 100.2 81.1 121.7

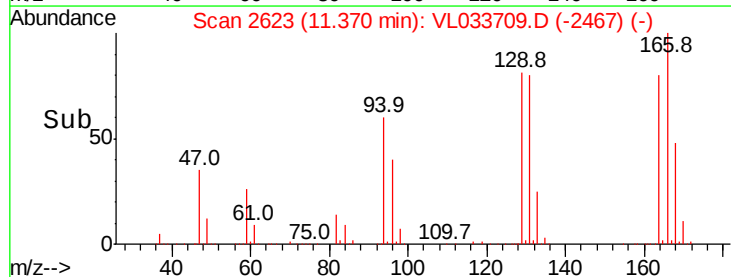
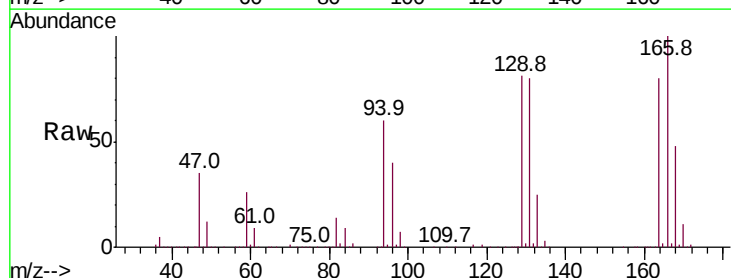
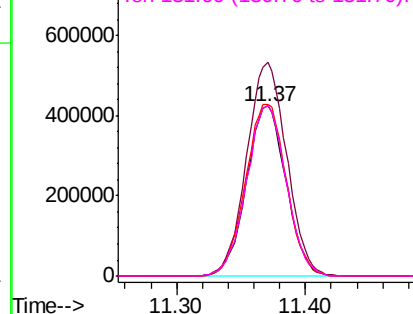
Abundance

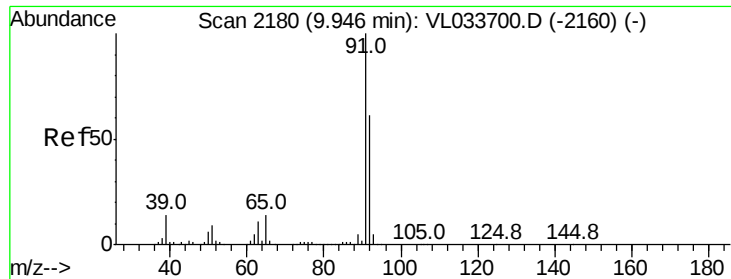
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.085 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampled :

VL0517ABS01

Tot Ion: 91 Resp: 2728689

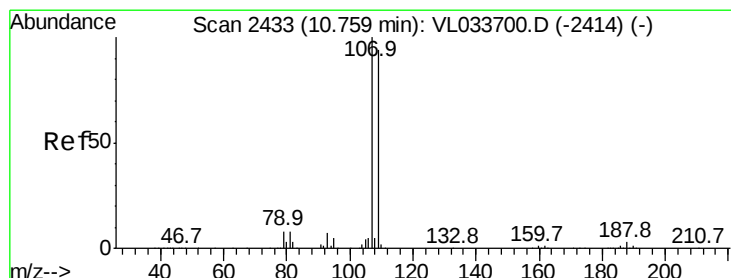
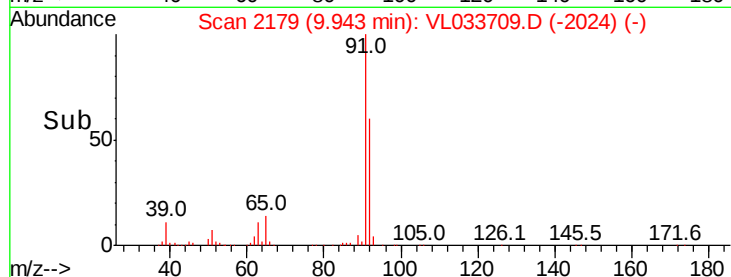
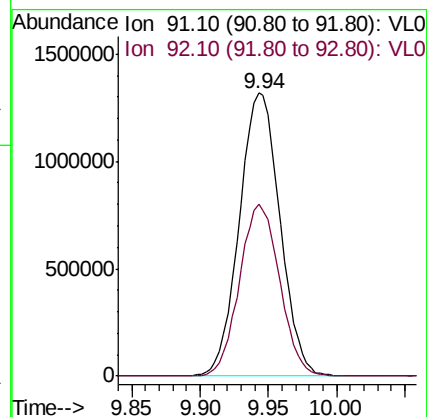
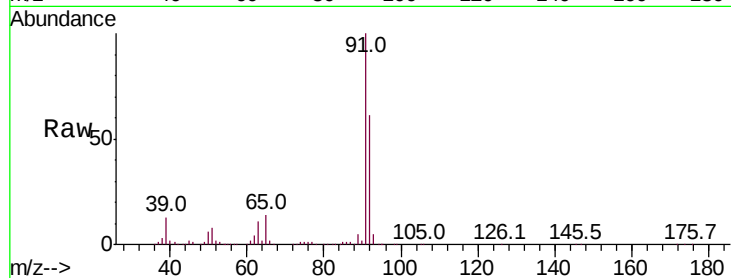
Ion Ratio Lower Upper

91 100

92 60.1 47.6 71.4

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#54

1,2-Dibromoethane

Concen: 9.596 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033709.D

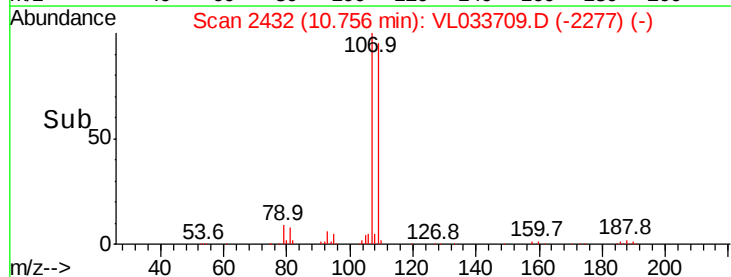
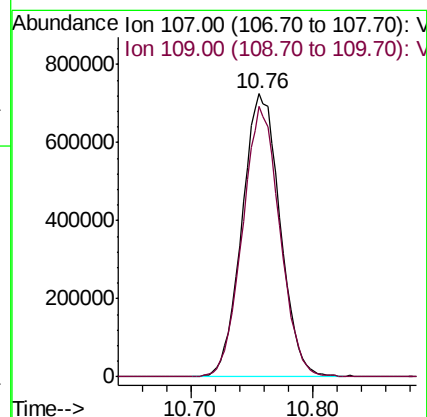
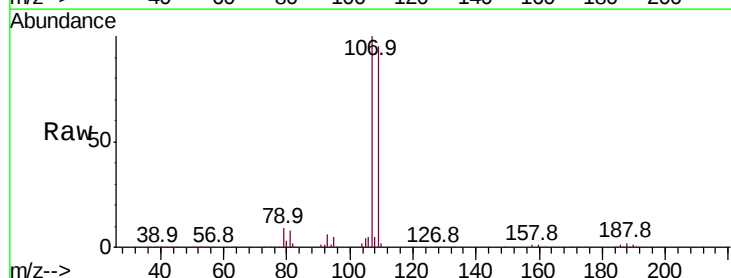
Acq: 17 May 2019 9:09

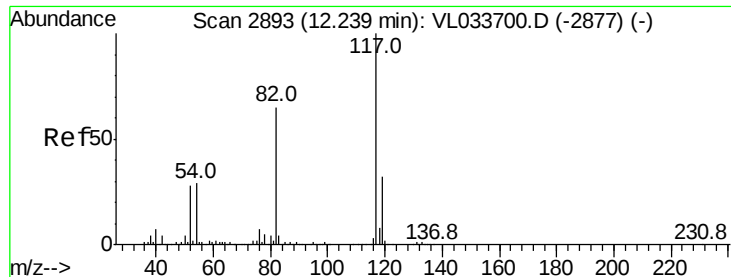
Tgt Ion: 107 Resp: 1556007

Ion Ratio Lower Upper

107 100

109 95.4 75.2 112.8





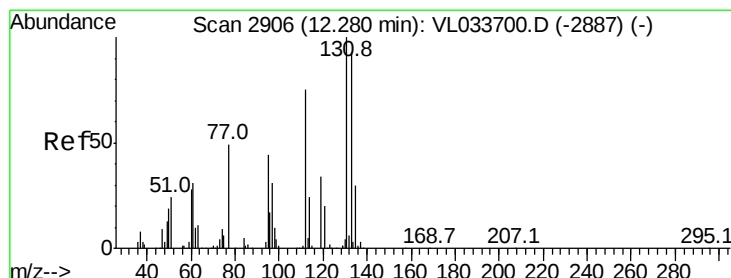
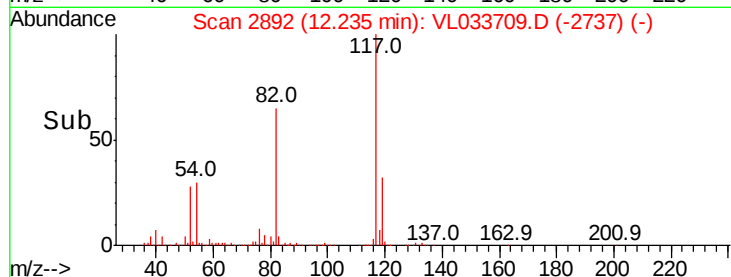
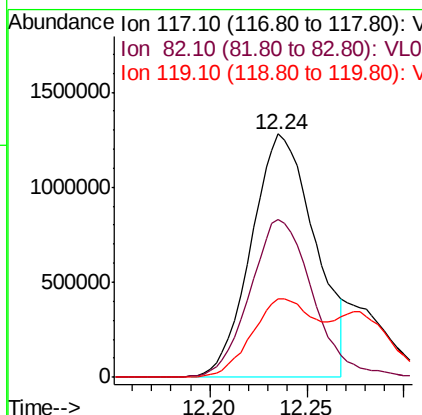
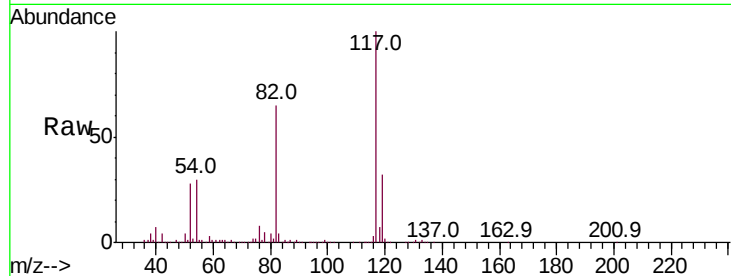
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion:117 Resp: 2914569
Ion Ratio Lower Upper
117 100
82 64.7 49.4 74.0
119 56.1 24.9 37.3#

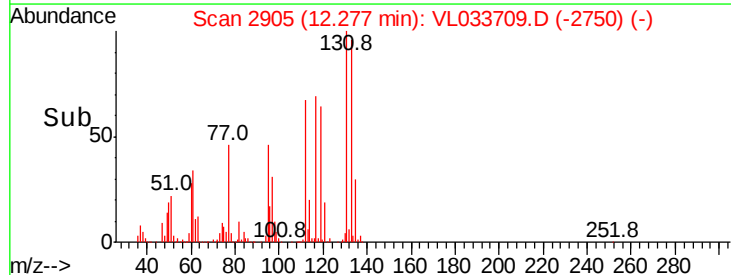
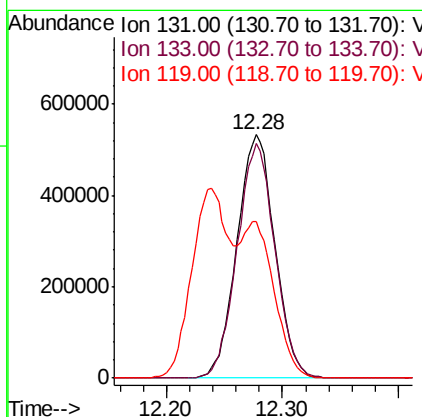
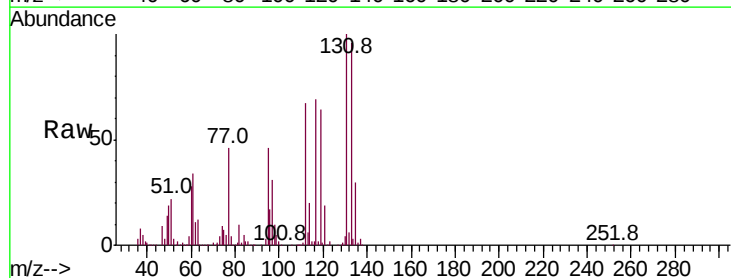
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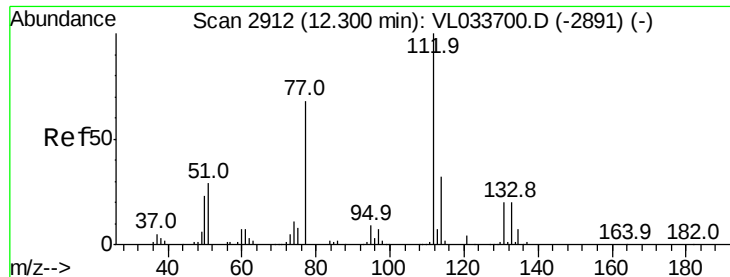
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.957 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion:131 Resp: 1207966
Ion Ratio Lower Upper
131 100
133 96.0 76.6 114.8
119 55.3 49.0 73.4





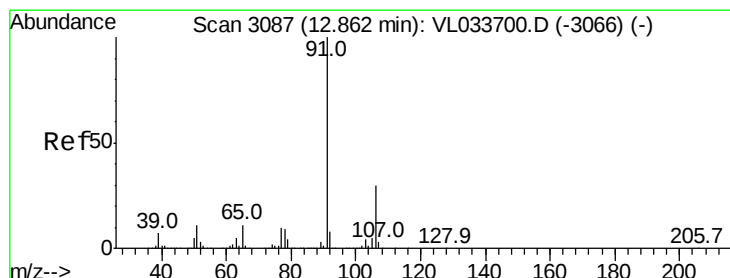
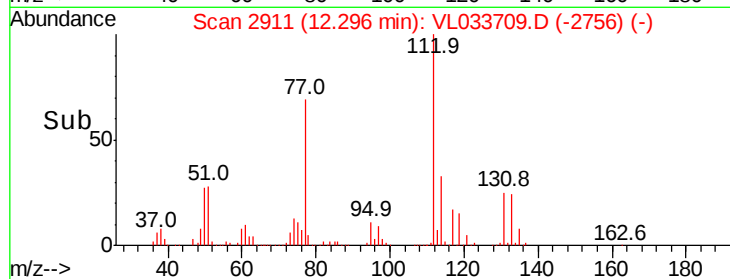
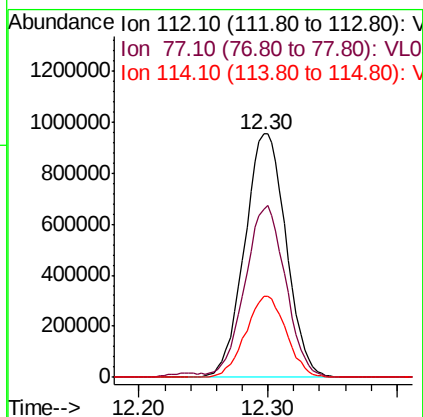
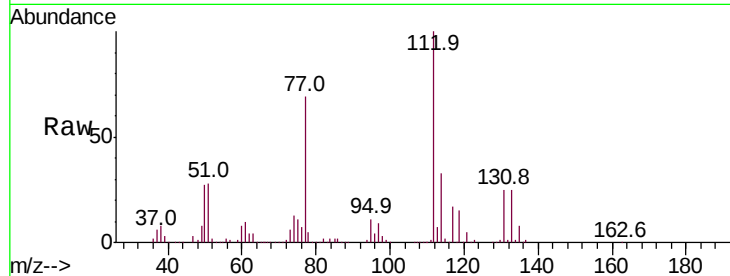
#57
Chlorobenzene
Concen: 8.899 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.1	55.4	83.0
114	33.5	29.3	35.8

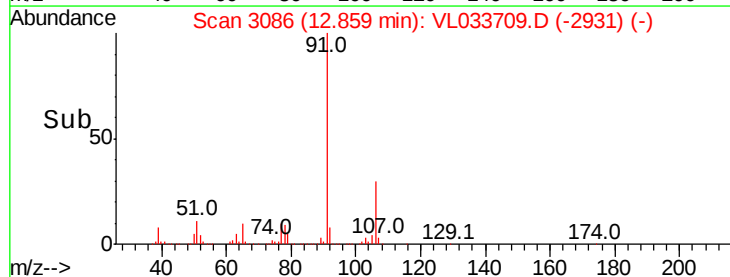
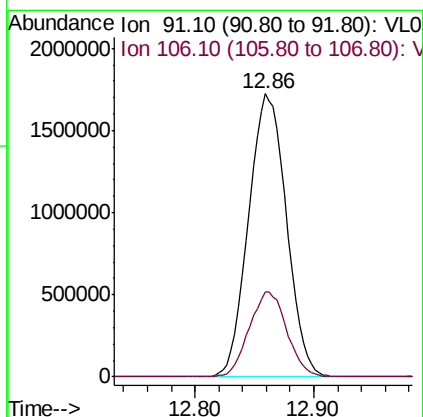
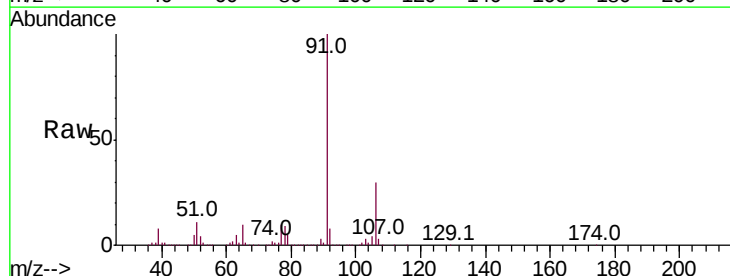
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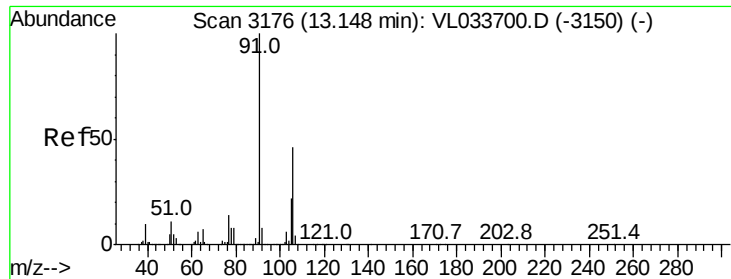
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#58
Ethyl Benzene
Concen: 9.836 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.9	35.9





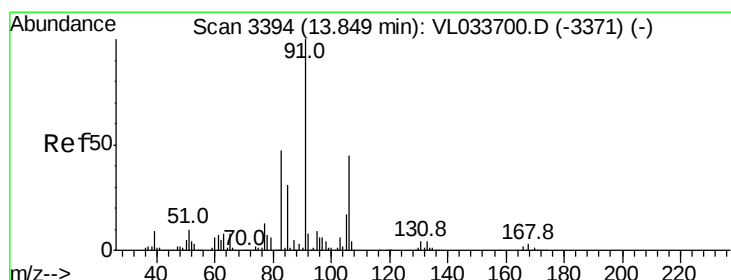
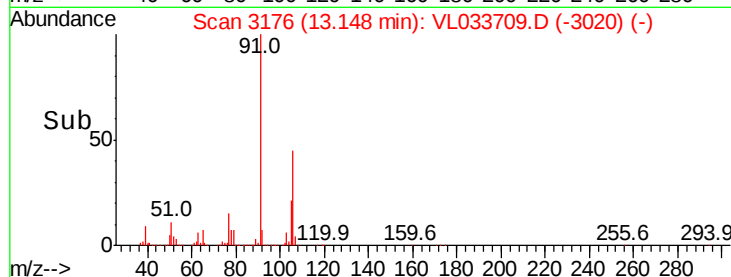
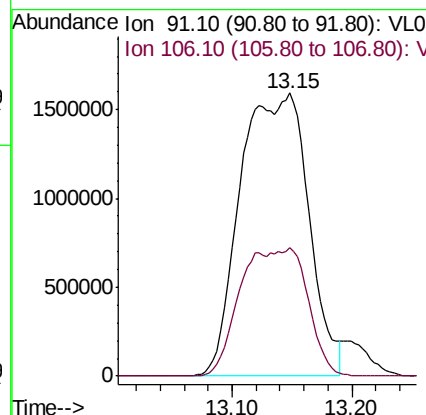
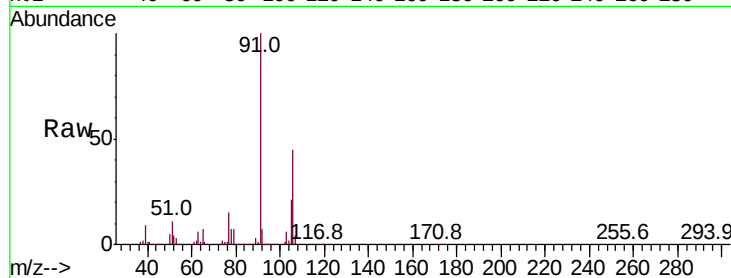
#59
m/p-Xylene
Concen: 18.671 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion: 91 Resp: 6299456
Ion Ratio Lower Upper
91 100
106 44.8 35.8 53.6

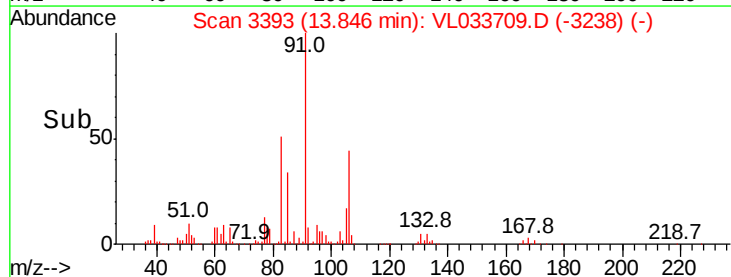
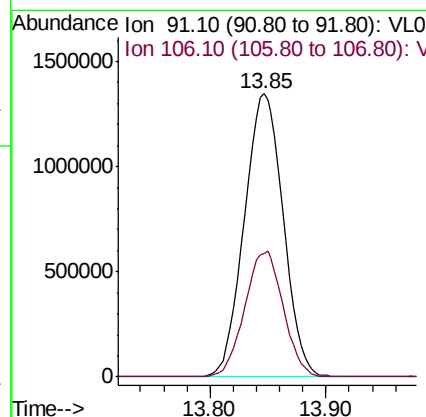
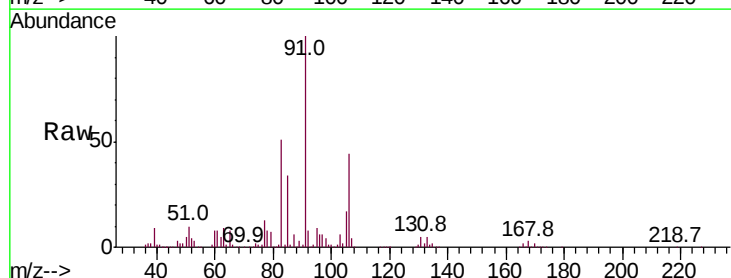
Manual Integrations
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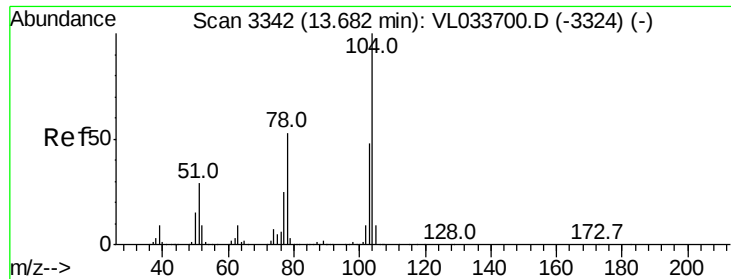
MMDadoda
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#60
o-Xylene
Concen: 9.236 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion: 91 Resp: 3141445
Ion Ratio Lower Upper
91 100
106 43.9 21.6 64.8





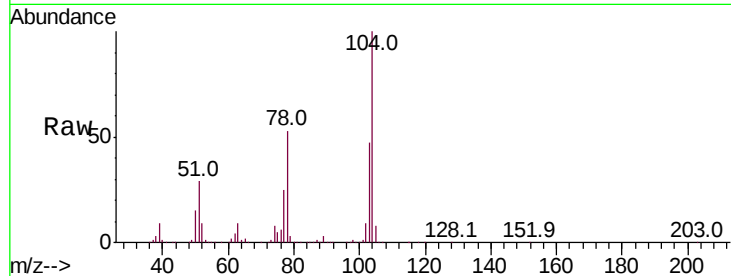
#61
Stvrene
Concen: 10.460 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

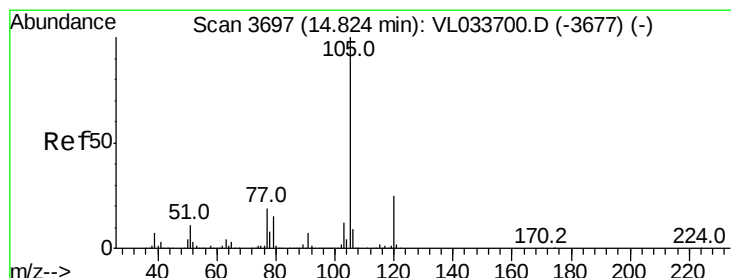
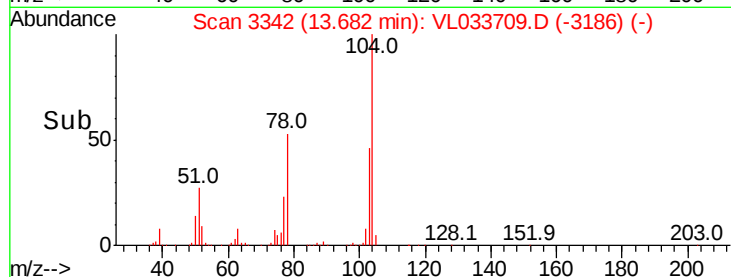
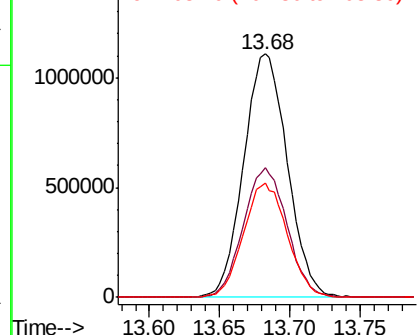
Tot Ion:104 Resp: 2395174
Ion Ratio Lower Upper
104 100
78 53.4 42.6 64.0
103 47.2 37.8 56.6

Manual Integrations
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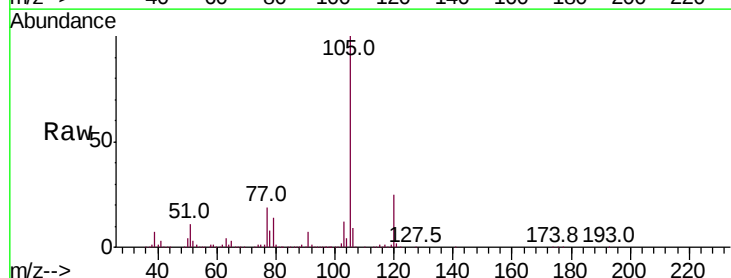


Abundance Ion 104.10 (103.80 to 104.80): V
1500000
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

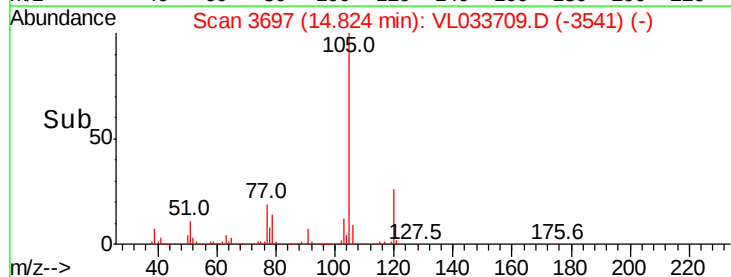
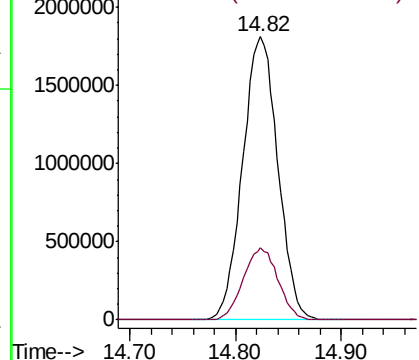


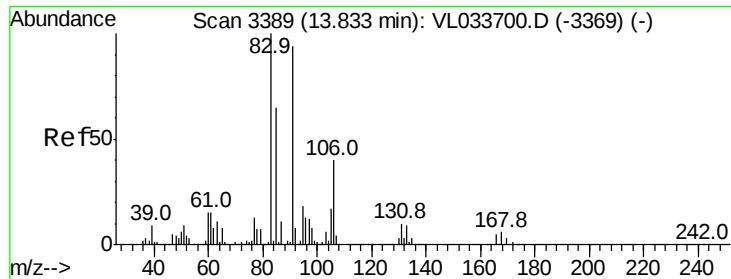
#62
Isopropylbenzene
Concen: 9.164 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion:105 Resp: 4197596
Ion Ratio Lower Upper
105 100
120 25.2 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V
2000000
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.585 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 83 Resp: 2123341

Ion Ratio Lower Upper

83 100

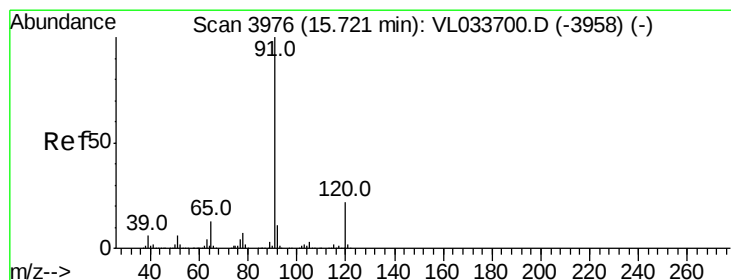
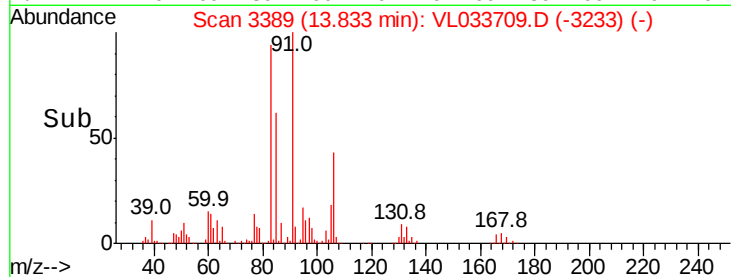
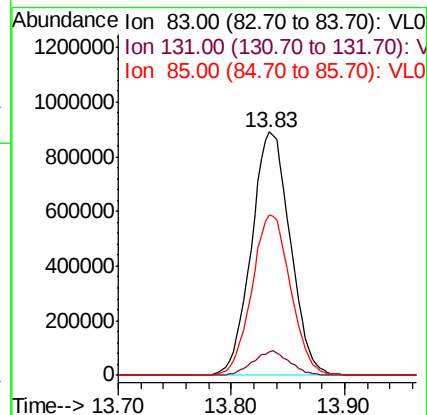
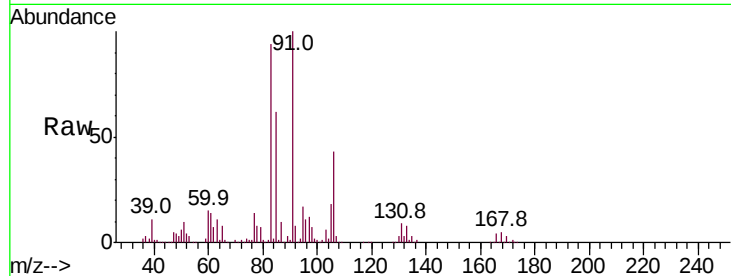
131 9.6 4.8 14.3

85 65.6 32.3 96.9

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#64

n-propylbenzene

Concen: 9.111 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL033709.D

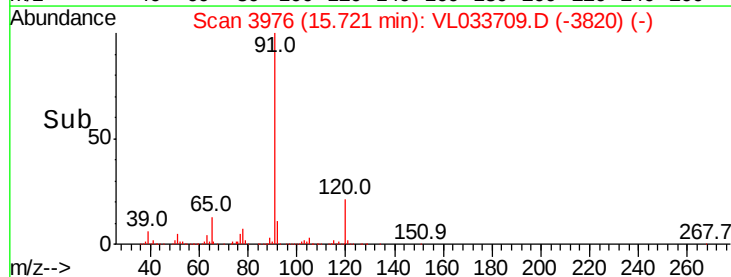
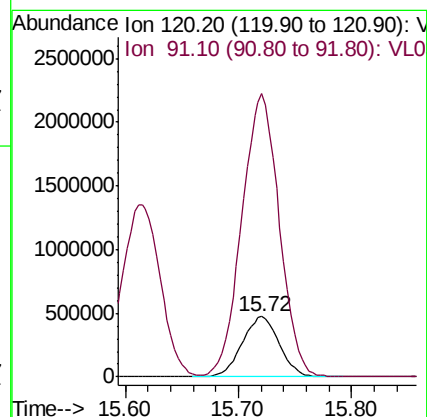
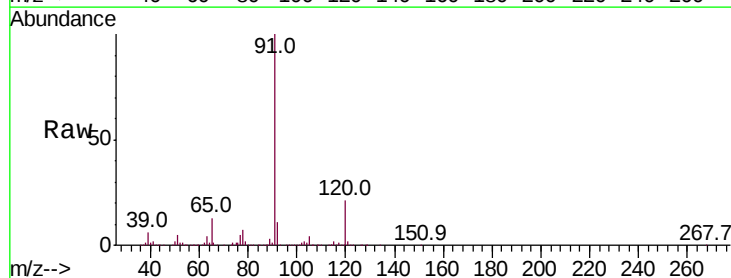
Acq: 17 May 2019 9:09

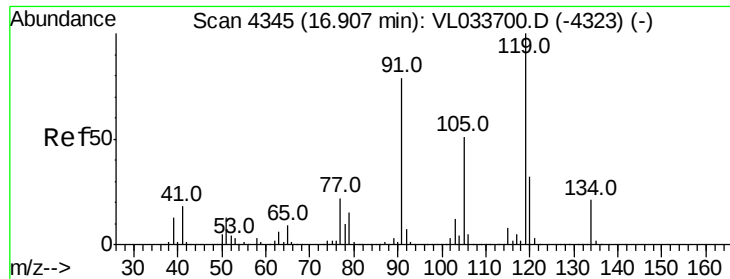
Tgt Ion: 120 Resp: 1079445

Ion Ratio Lower Upper

120 100

91 474.2 379.1 568.7





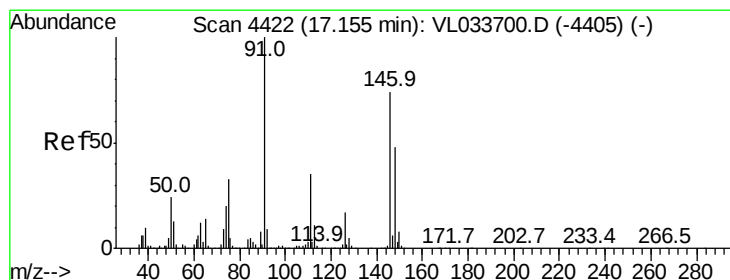
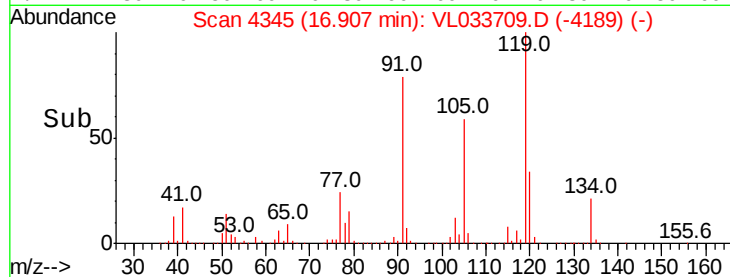
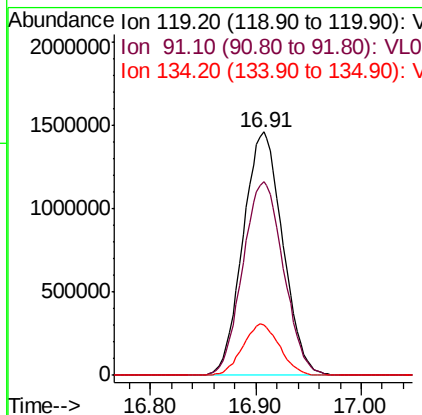
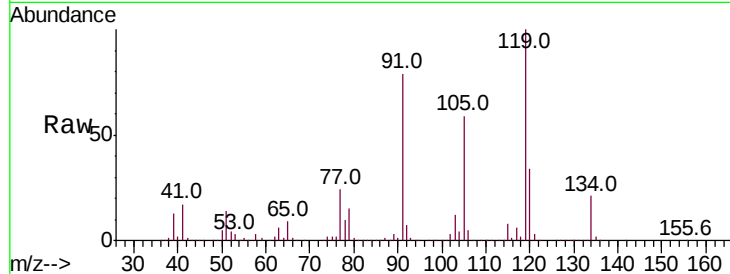
#65
 tert-Butylbenzene
 Concen: 9.132 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion: 119 Resp: 3818894
 Ion Ratio Lower Upper
 119 100
 91 82.0 65.3 97.9
 134 19.7 15.7 23.5

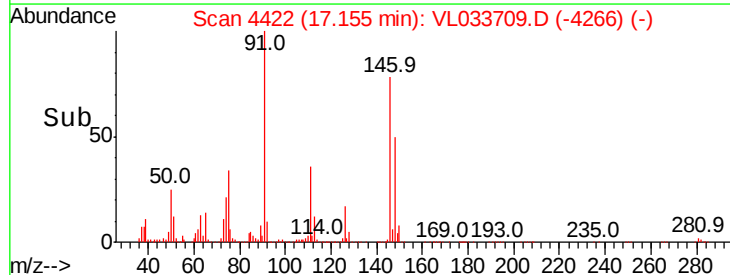
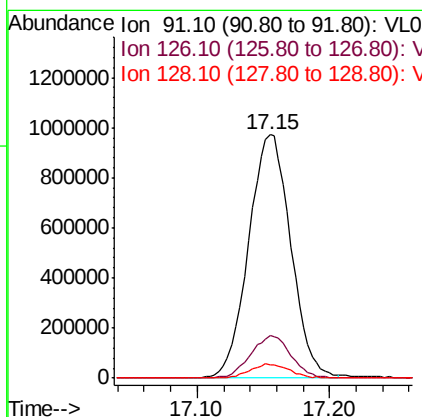
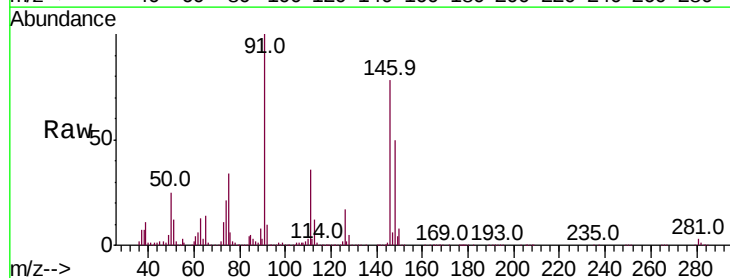
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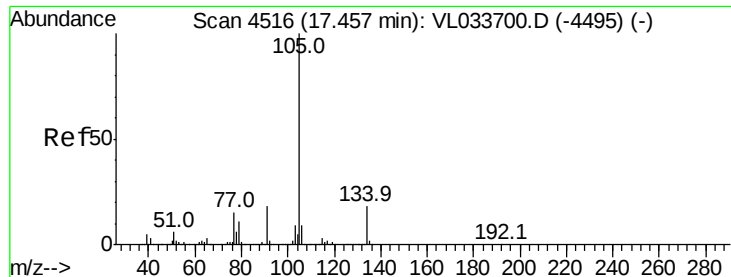
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#66
 Benzyl Chloride
 Concen: 10.747 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion: 91 Resp: 2140538
 Ion Ratio Lower Upper
 91 100
 126 16.9 13.5 20.3
 128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.082 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion:105 Resp: 5315696

Ion Ratio Lower Upper

105 100

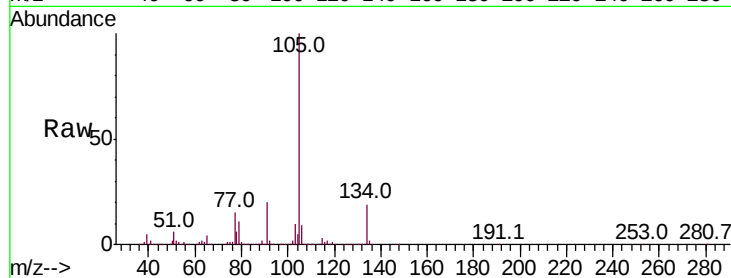
134 18.3 14.6 22.0

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

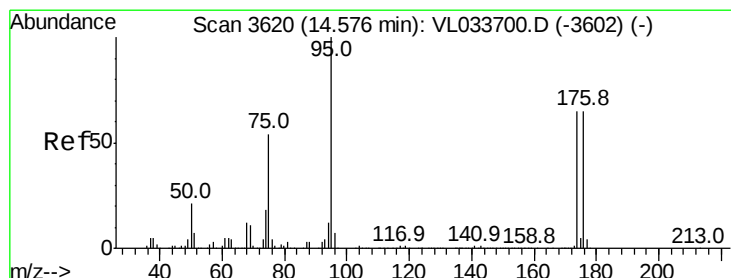
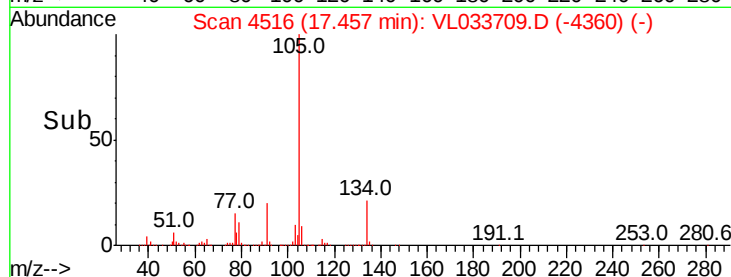
1000000

500000

0

17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.774 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

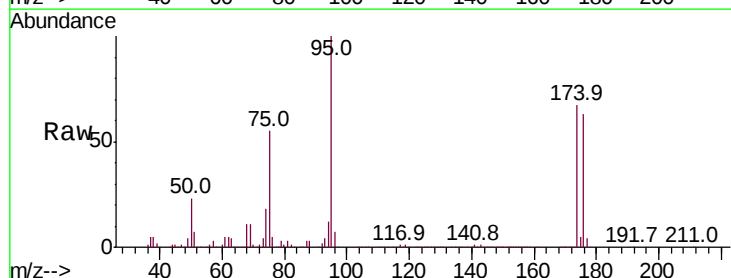
Tgt Ion: 95 Resp: 2309279

Ion Ratio Lower Upper

95 100

174 67.4 53.9 80.9

175 4.9 3.8 5.8



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

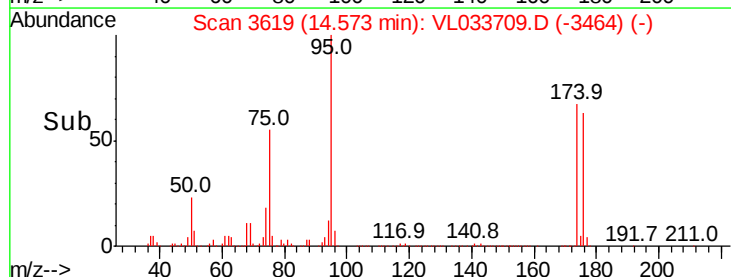
1000000

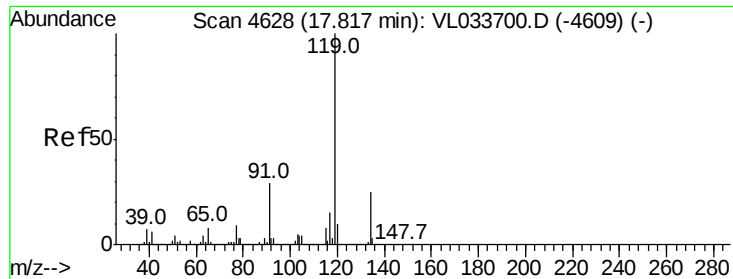
500000

0

14.50 14.60

Time-->





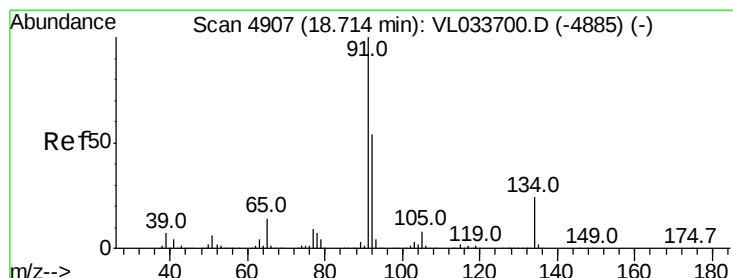
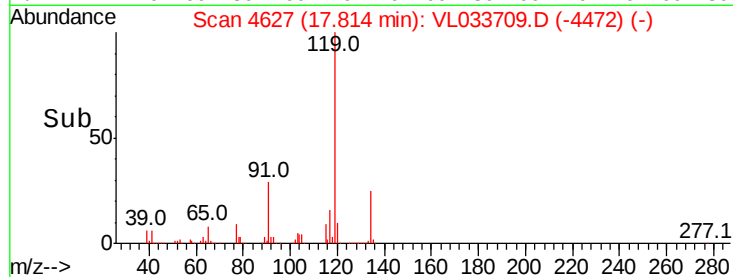
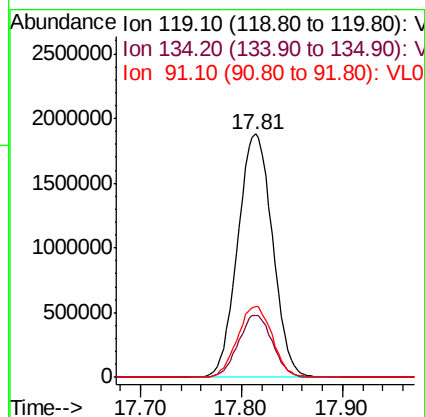
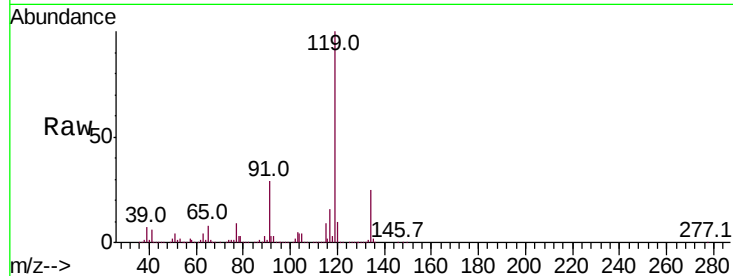
#69
p-Isopropyltoluene
Concen: 9.272 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Instrument :
MSVOA_L
ClientSampleId :
VL0517ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.3	30.5
91	29.3	23.1	34.7

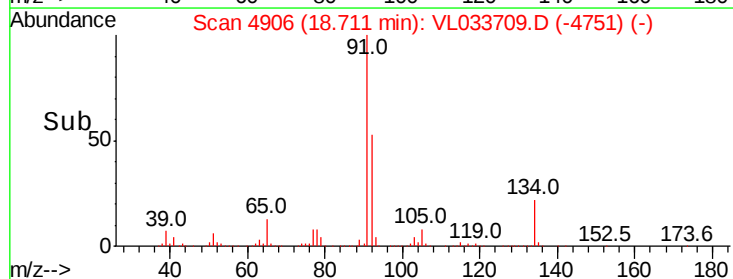
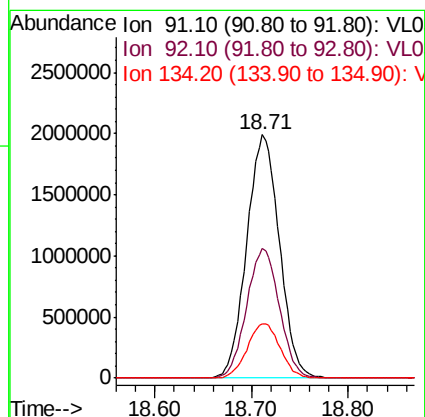
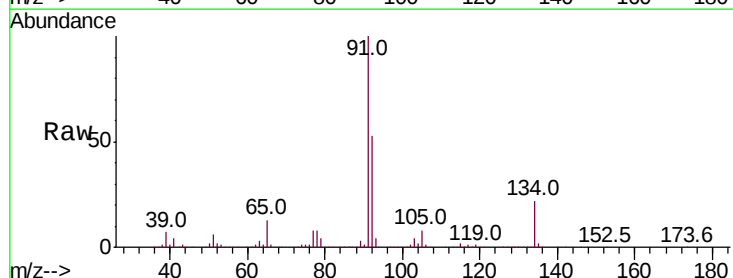
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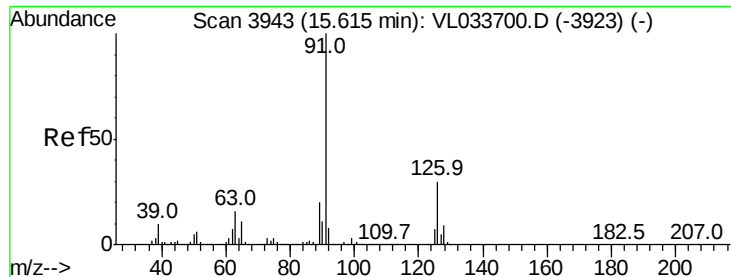
MMDadoda
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#70
n-Butylbenzene
Concen: 9.010 ppbv
RT: 18.71 min Scan# 4906
Delta R.T. -0.00 min
Lab File: VL033709.D
Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	63.8
134	22.5	18.1	27.1





#71

2-Chlorotoluene

Concen: 9.289 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion: 91 Resp: 3156540

Ion Ratio Lower Upper

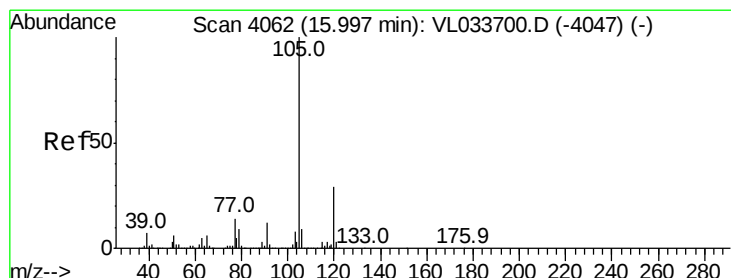
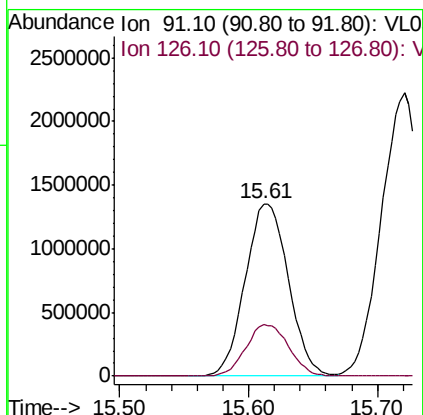
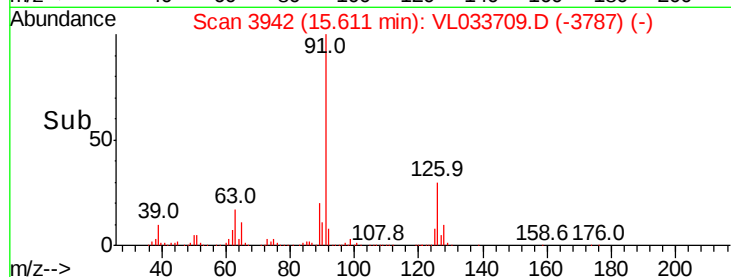
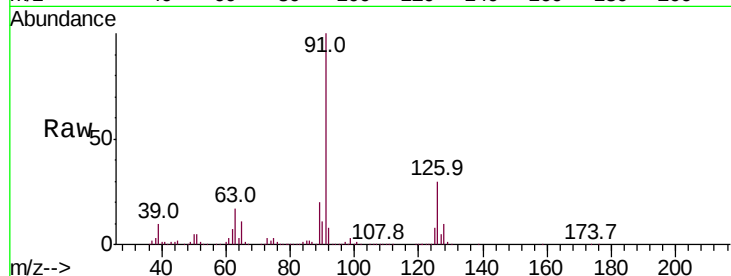
91 100

126 29.8 12.0 47.8

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#72

4-Ethyltoluene

Concen: 9.556 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Tgt Ion:105 Resp: 3716242

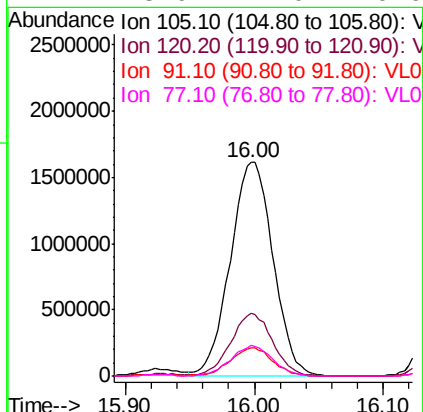
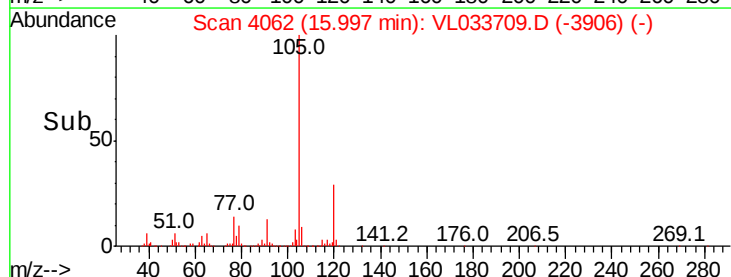
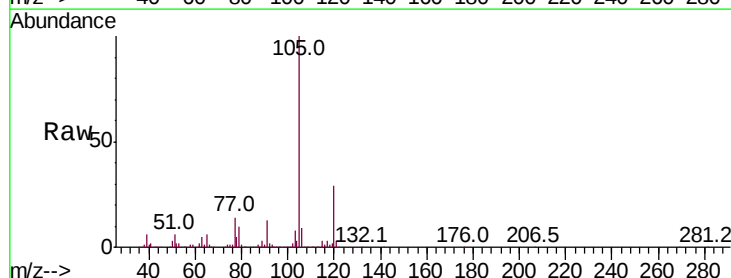
Ion Ratio Lower Upper

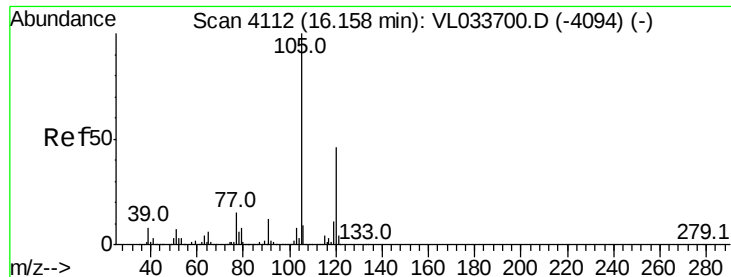
105 100

120 28.7 23.1 34.7

91 13.0 10.4 15.6

77 13.9 11.0 16.6





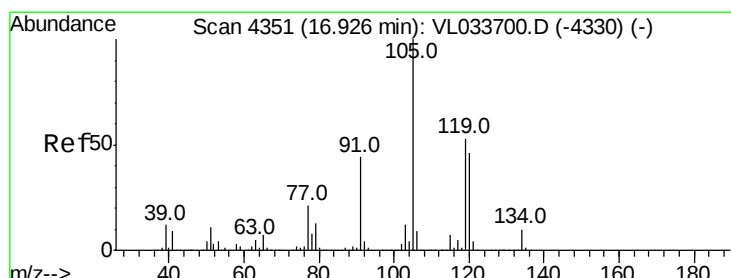
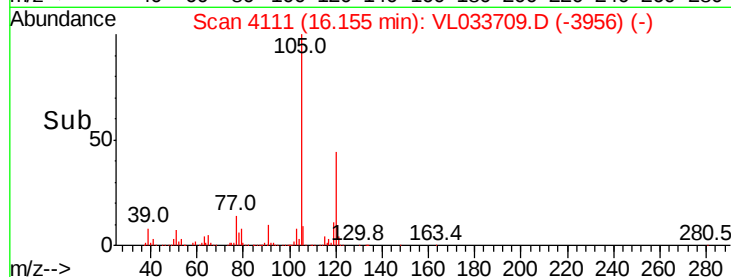
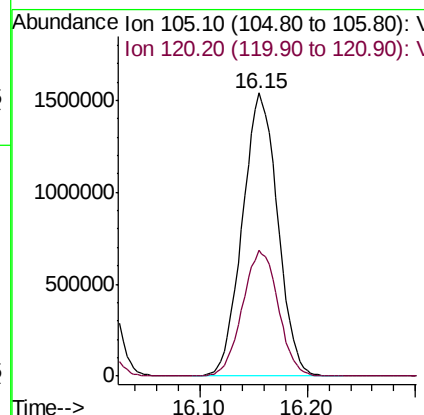
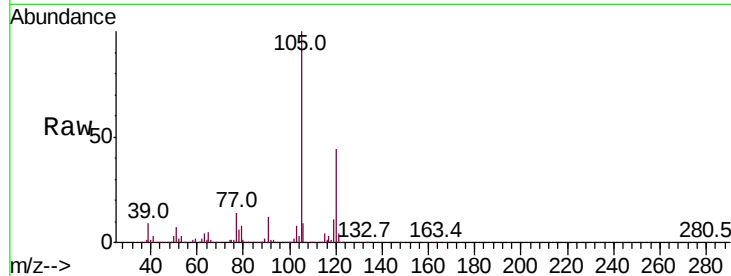
#73
 1,3,5-Trimethylbenzene
 Concen: 9.195 ppbv
 RT: 16.15 min Scan# 4111
 Delta R.T. -0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion:105 Resp: 3488902
 Ion Ratio Lower Upper
 105 100
 120 44.3 37.0 55.4

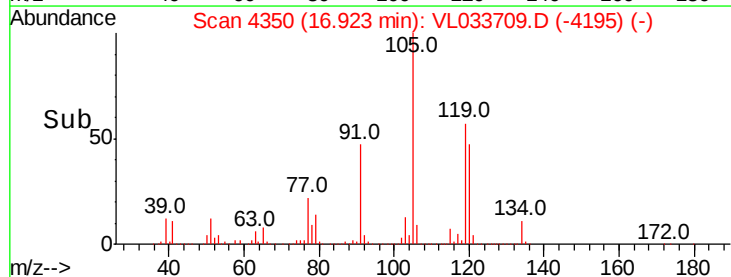
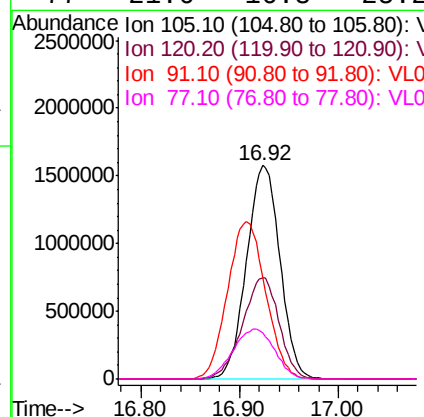
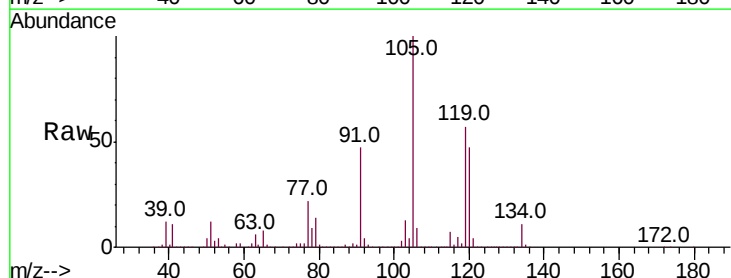
Manual Integrations
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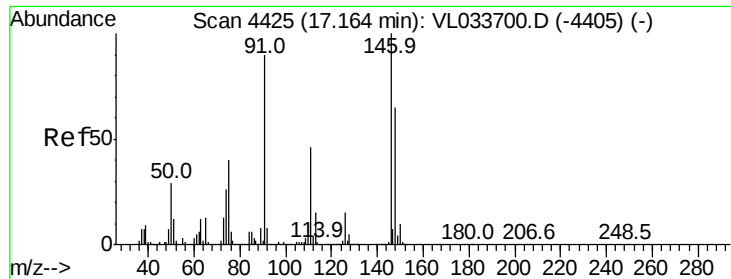
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.958 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion:105 Resp: 3698794
 Ion Ratio Lower Upper
 105 100
 120 47.1 36.8 55.2
 91 47.4 35.4 53.0
 77 21.6 16.8 25.2





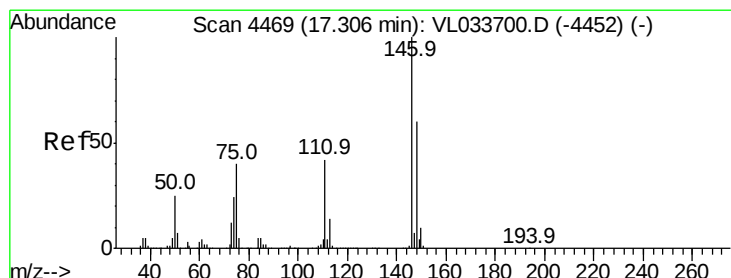
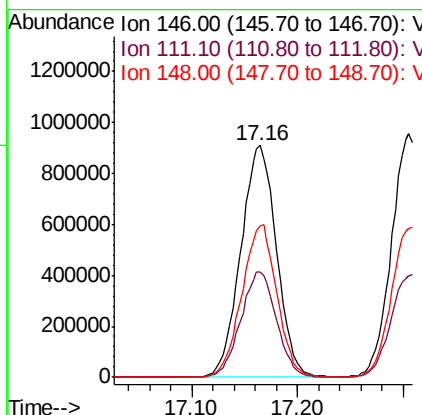
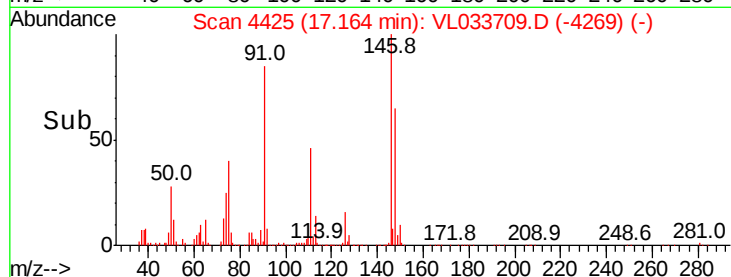
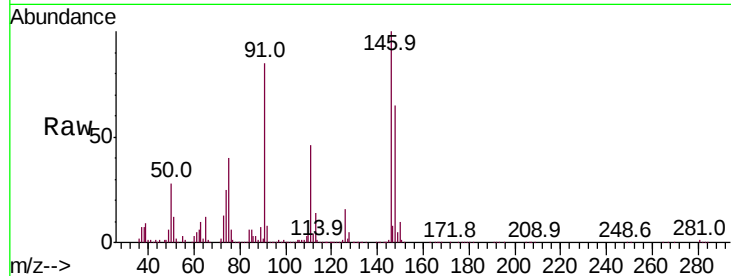
#75
 1,3-Dichlorobenzene
 Concen: 8.469 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.9	68.8
148	64.6	32.0	96.2

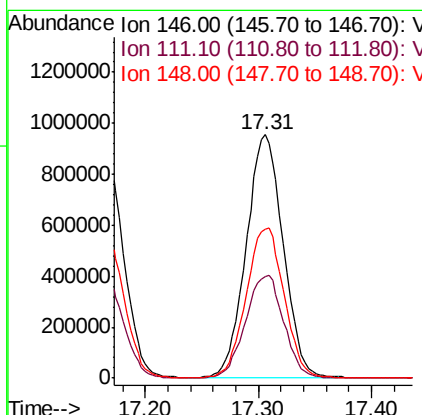
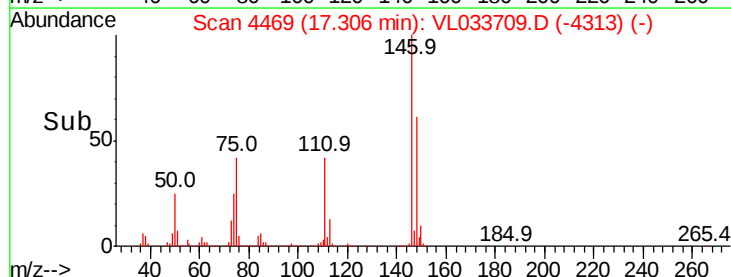
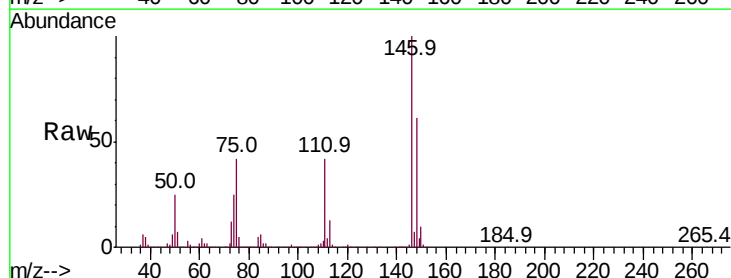
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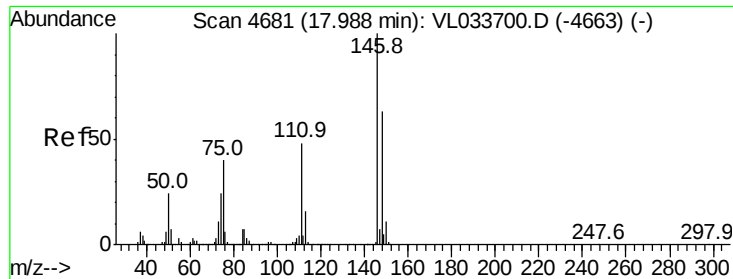
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#76
 1,4-Dichlorobenzene
 Concen: 8.962 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. 0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.8
148	63.9	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 8.674 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion:146 Resp: 2062368

Ion Ratio Lower Upper

146 100

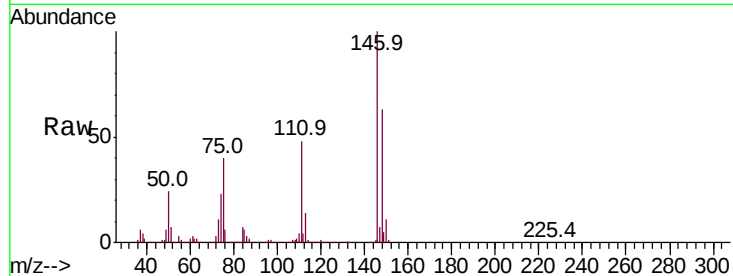
111 47.0 23.5 70.5

148 63.6 32.1 96.3

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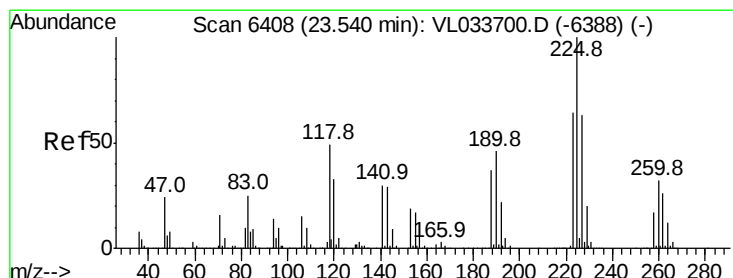
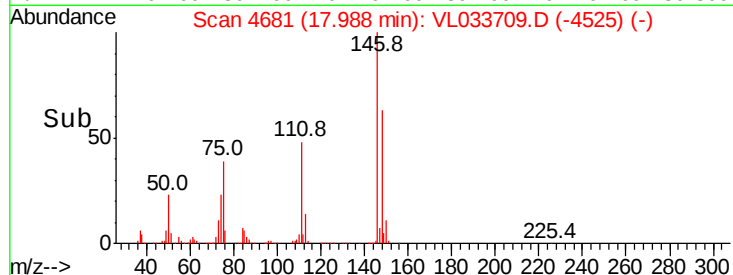
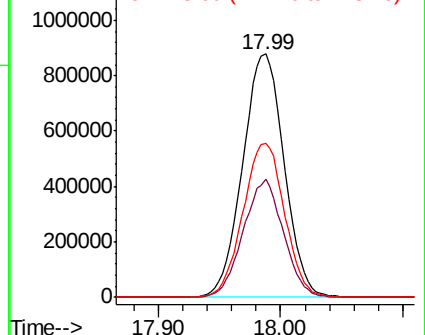
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.645 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

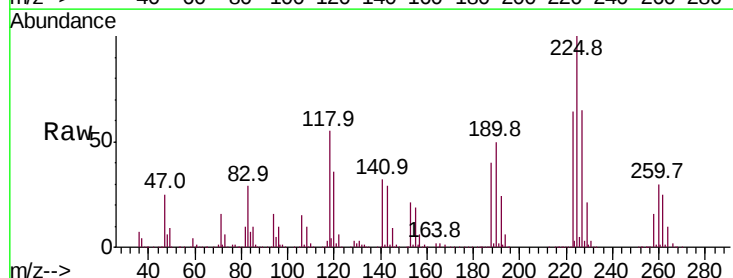
Tgt Ion:225 Resp: 1913644

Ion Ratio Lower Upper

225 100

223 63.5 50.2 75.4

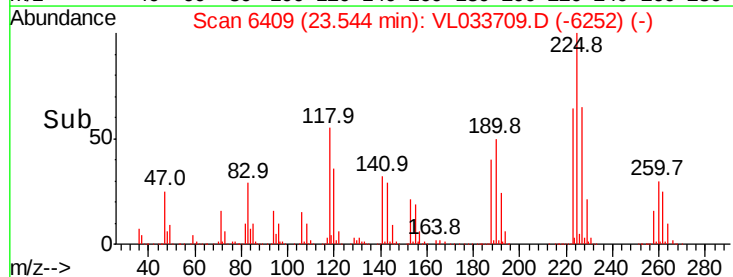
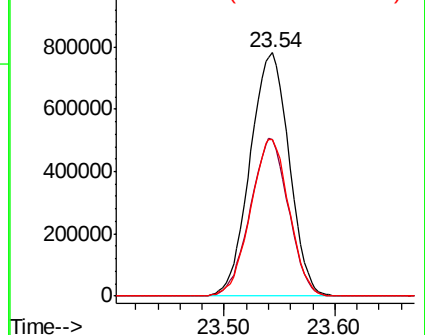
227 63.7 50.7 76.1

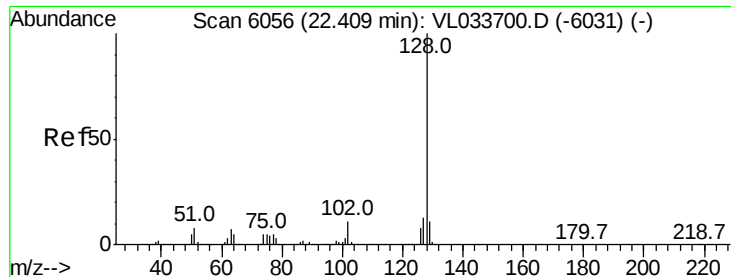


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.274 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

Instrument :

MSVOA_L

ClientSampleId :

VL0517ABS01

Tot Ion:128 Resp: 4324033

Ion Ratio Lower Upper

128 100

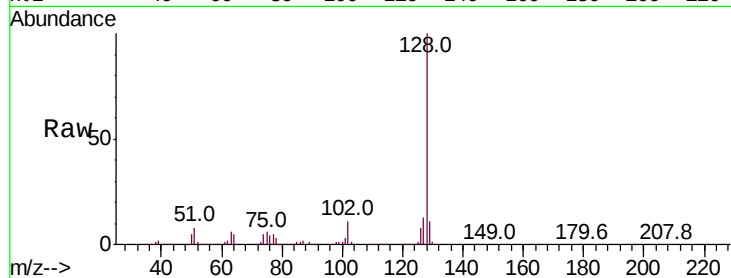
127 12.7 10.6 16.0

129 10.6 8.9 13.3

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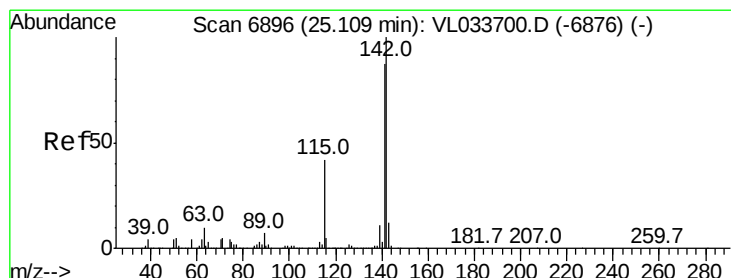
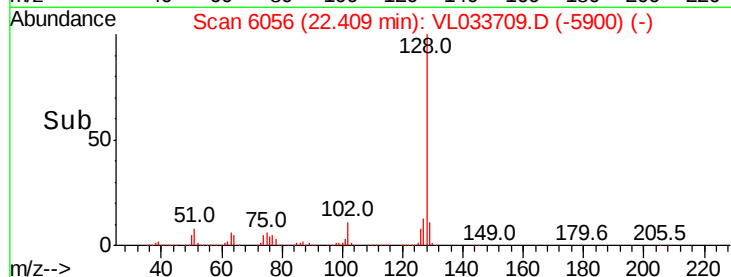
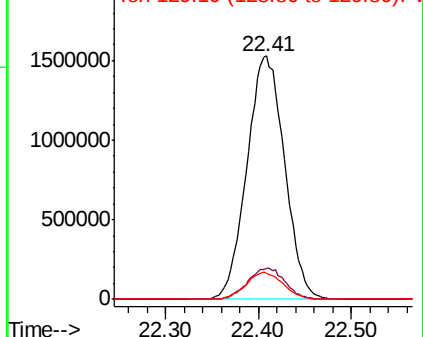


Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.081 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033709.D

Acq: 17 May 2019 9:09

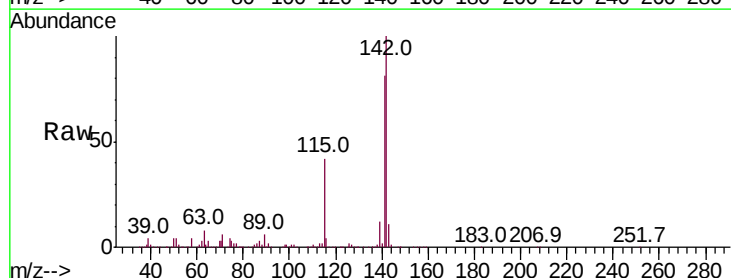
Tgt Ion:142 Resp: 2052056

Ion Ratio Lower Upper

142 100

141 83.3 67.2 100.8

115 41.9 34.1 51.1

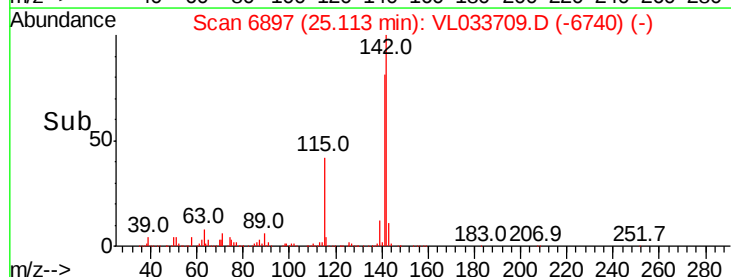
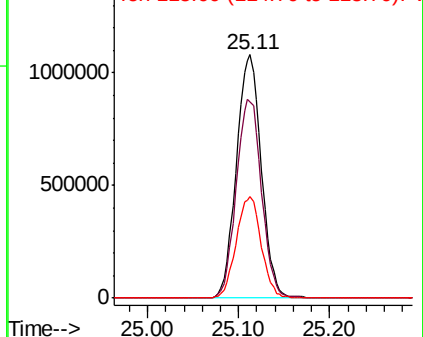


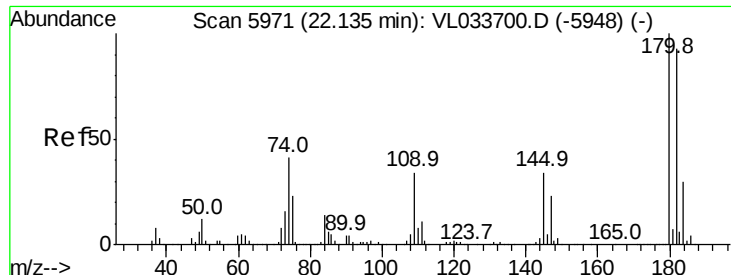
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





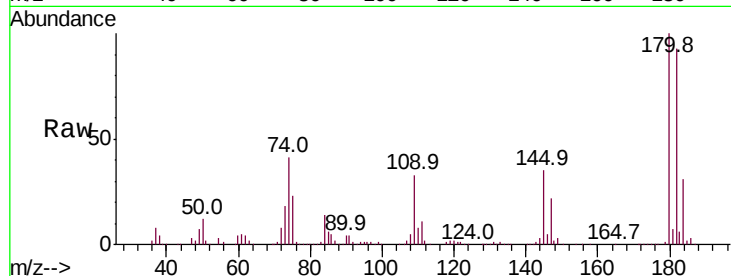
#81
 1,2,4-Trichlorobenzene
 Concen: 9.853 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033709.D
 Acq: 17 May 2019 9:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Tot Ion:180 Resp: 2212887
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.1 114.1
 184 30.6 24.6 37.0

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Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

