

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033703.D
 Acq On : 17 May 2019 3:56
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:08 PM

Quant Time: May 17 08:03:20 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 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1108721	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2637681	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2542103	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2109749	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	122501	0.483	ppbv	99
3) Chlorodifluoromethane	3.01	51	64711m	0.407	ppbv	
4) Chloromethane	3.17	50	36391	0.440	ppbv	93
5) Vinyl Chloride	3.29	62	36195	0.449	ppbv	94
6) Bromomethane	3.52	94	22315	0.435	ppbv	84
7) Chloroethane	3.60	64	13404	0.457	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	97931	0.461	ppbv	98
9) Propene	3.03	41	25666	0.421	ppbv	100
10) Heptane	8.25	43	66574	0.441	ppbv	100
11) Trichlorofluoromethane	4.00	101	112491	0.461	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	80764	0.491	ppbv	99
13) Ethanol	3.65	45	10438m	0.563	ppbv	
14) Bromoethene	3.79	108	27336	0.430	ppbv	98
15) Acetone	3.91	43	82656	0.498	ppbv	97
16) 1,3-Butadiene	3.36	39	28512	0.409	ppbv	96
17) tert-Butyl alcohol	4.38	59	61647	0.483	ppbv	97
18) 1,1-Dichloroethene	4.35	96	31275	0.441	ppbv	93
19) Isopropyl Alcohol	4.04	45	51349	0.495	ppbv	# 92
20) Methylene Chloride	4.41	84	31253	0.498	ppbv	93
21) Allyl Chloride	4.48	41	46285	0.459	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	33419	0.476	ppbv	99
23) Vinyl Acetate	5.16	43	92916	0.434	ppbv	# 95
24) 1,1-Dichloroethane	5.09	63	80851	0.500	ppbv	98
25) Ethyl Acetate	5.77	43	136317	0.504	ppbv	99
26) Hexane	5.78	57	54489	0.469	ppbv	85
27) Carbon Disulfide	4.62	76	74801	0.469	ppbv	95
28) Methyl tert-Butyl Ether	5.12	73	87010	0.448	ppbv	98
29) Chloroform	5.84	83	109725	0.526	ppbv	97
30) Cyclohexane	7.25	84	39492m	0.407	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	55508	0.486	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	102686	0.478	ppbv	97
34) 2-Butanone	5.34	43	83358	0.493	ppbv	98
35) Carbon Tetrachloride	7.13	117	110047	0.507	ppbv	93
36) Benzene	7.00	78	113904	0.478	ppbv	# 93
37) 1,2-Dichloroethane	6.41	62	78165	0.470	ppbv	97
38) Trichloroethene	7.96	130	44166	0.508	ppbv	92
39) 1,2-Dichloropropane	7.73	63	42734	0.481	ppbv	89
40) 1,4-Dioxane	7.98	88	18275m	0.508	ppbv	
41) Tetrahydrofuran	6.17	42	39335m	0.444	ppbv	
42) Bromodichloromethane	7.91	83	100886	0.472	ppbv	93
43) Methyl Methacrylate	8.14	69	35717	0.399	ppbv	92

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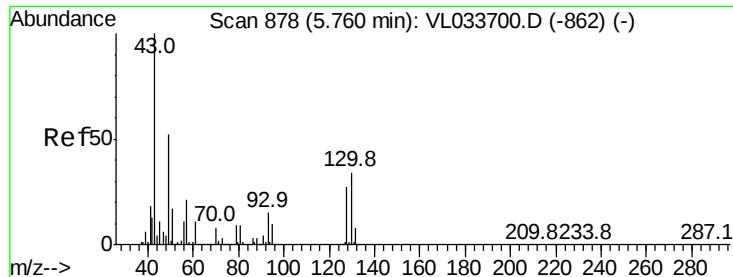
MMDadoda
 5/20/2019 12:05:08 PM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	184880	0.454	ppbv	95
45) t-1,3-Dichloropropene	9.41	75	40662	0.368	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	49000	0.357	ppbv #	87
47) 1,1,2-Trichloroethane	9.61	97	49038m	0.481	ppbv	
48) Dibromochloromethane	10.45	129	76845	0.443	ppbv	99
49) Bromoform	13.19	173	60059	0.405	ppbv	97
50) 4-Methyl-2-Pentanone	8.88	43	106874m	0.416	ppbv	
51) 2-Hexanone	10.29	43	75726m	0.379	ppbv	
52) Tetrachloroethene	11.37	164	41072	0.486	ppbv	91
53) Toluene	9.94	91	99005	0.383	ppbv	99
54) 1,2-Dibromoethane	10.76	107	68575	0.445	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.28	131	60806	0.514	ppbv #	1
57) Chlorobenzene	12.30	112	108970	0.517	ppbv #	89
58) Ethyl Benzene	12.86	91	139518	0.417	ppbv	94
59) m/p-Xylene	13.15	91	264954m	0.898	ppbv	
60) o-Xylene	13.85	91	135045	0.454	ppbv	97
61) Styrene	13.68	104	70552	0.355	ppbv	92
62) Isopropylbenzene	14.82	105	183613	0.451	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	113028	0.523	ppbv	99
64) n-propylbenzene	15.72	120	44635	0.425	ppbv	85
65) tert-Butylbenzene	16.90	119	156318	0.419	ppbv	92
66) Benzyl Chloride	17.15	91	60788	0.356	ppbv	99
67) sec-Butylbenzene	17.46	105	226379	0.435	ppbv	99
69) p-Isopropyltoluene	17.81	119	175586	0.409	ppbv	97
70) n-Butylbenzene	18.71	91	198689	0.438	ppbv	97
71) 2-Chlorotoluene	15.61	91	124525	0.414	ppbv	98
72) 4-Ethyltoluene	16.00	105	140527	0.402	ppbv	96
73) 1,3,5-Trimethylbenzene	16.16	105	142863	0.423	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	166641	0.443	ppbv	96
75) 1,3-Dichlorobenzene	17.15	146	111048m	0.490	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	100224	0.466	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	101744	0.484	ppbv	98
78) Hexachloro-1,3-Butadiene	23.54	225	87793	0.527	ppbv	99
79) Naphthalene	22.41	128	126908	0.369	ppbv	96
80) Naphthalene, 2-methyl-	25.12	142	36367	0.277	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	87239m	0.436	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1108721

Ion Ratio Lower Upper

49 100

128 49.8 25.2 75.6

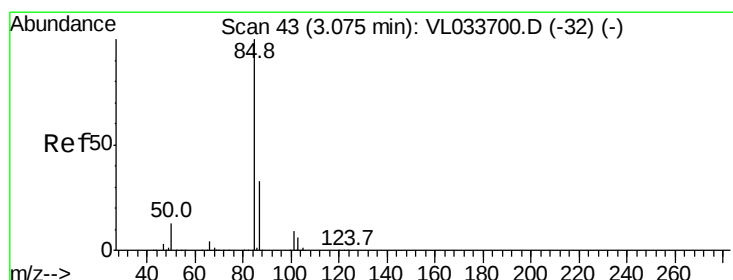
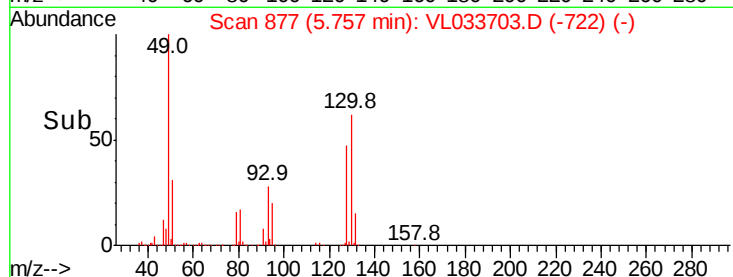
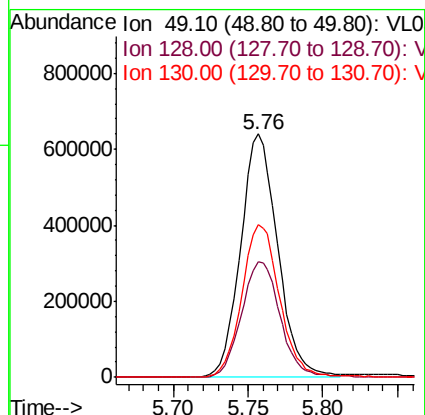
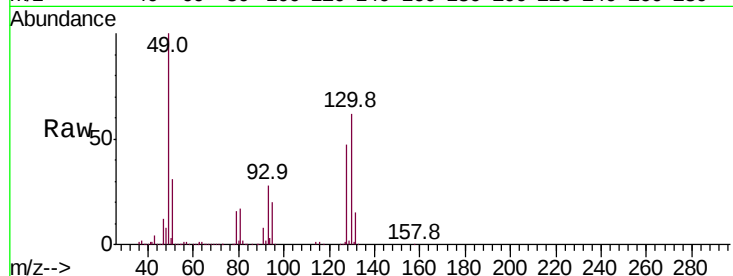
130 64.1 32.5 97.5

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.483 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033703.D

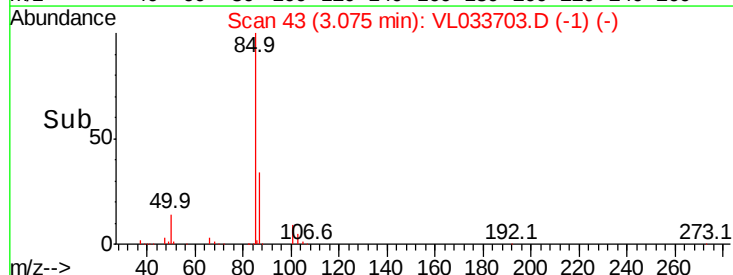
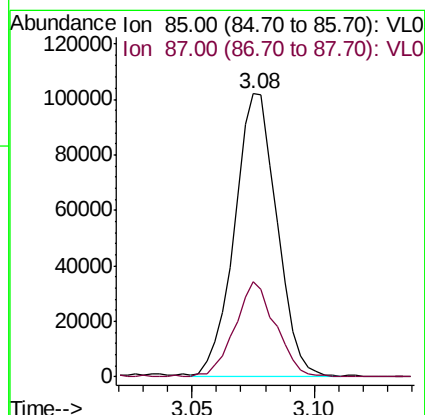
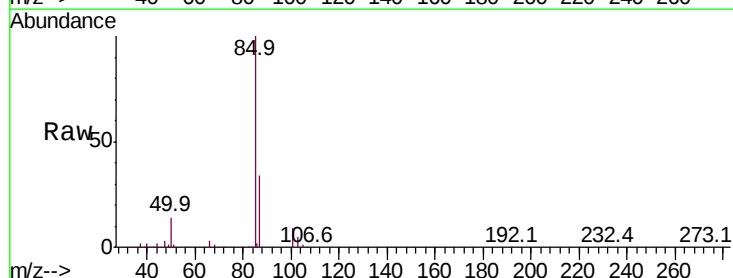
Acq: 17 May 2019 3:56

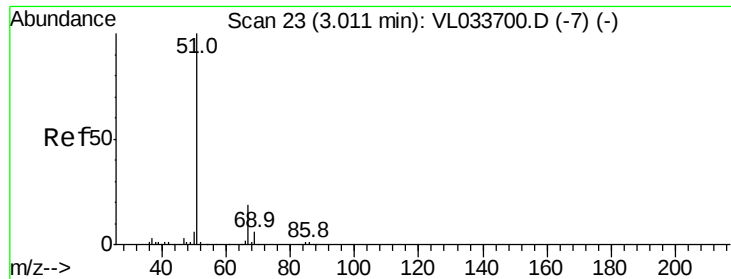
Tgt Ion: 85 Resp: 122501

Ion Ratio Lower Upper

85 100

87 33.7 26.3 39.5





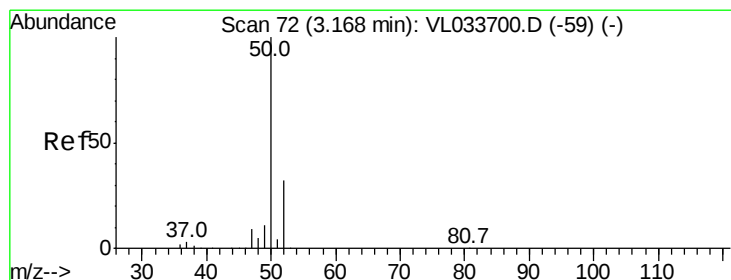
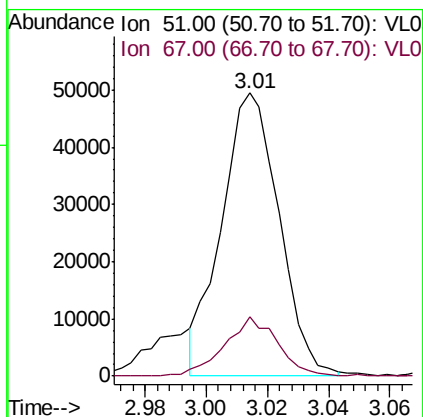
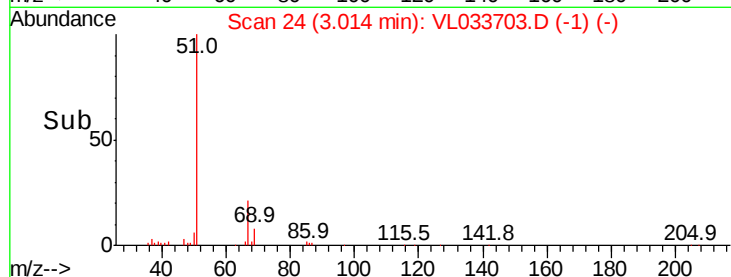
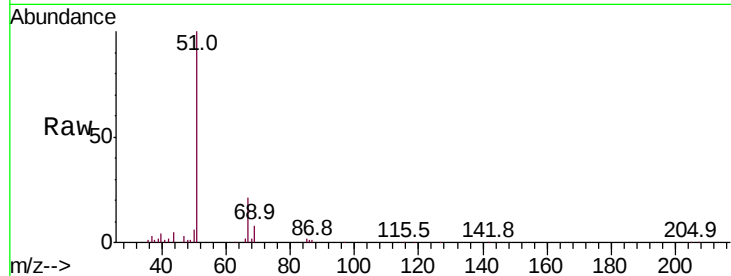
#3
Chlorodifluoromethane
Concen: 0.407 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 51 Resp: 64711
Ion Ratio Lower Upper
51 100
67 19.4 15.6 23.4

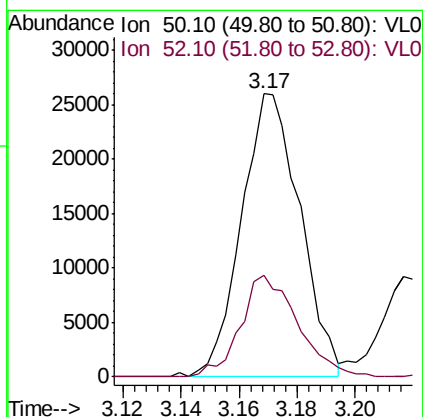
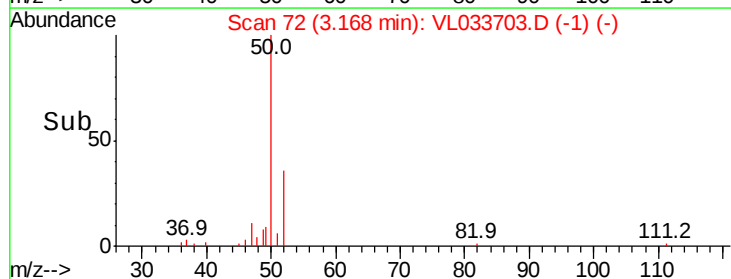
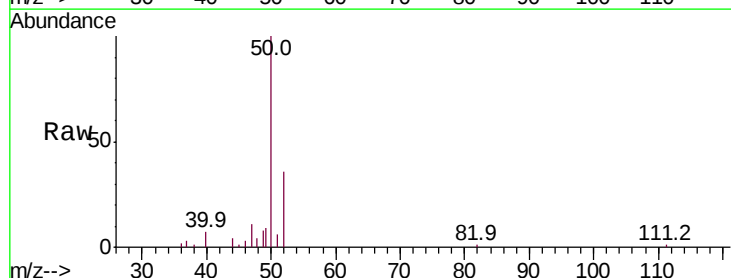
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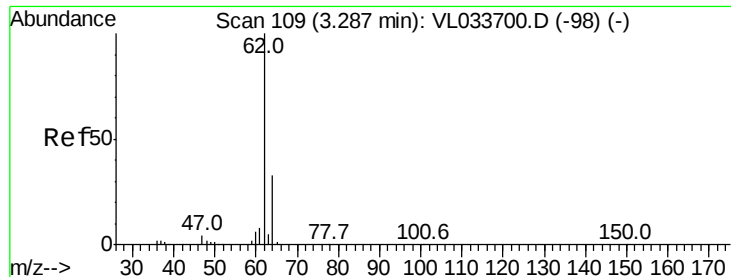
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#4
Chloromethane
Concen: 0.440 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion: 50 Resp: 36391
Ion Ratio Lower Upper
50 100
52 36.1 25.7 38.5





#5

Vinyl Chloride

Concen: 0.449 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 36195

Ion Ratio Lower Upper

62 100

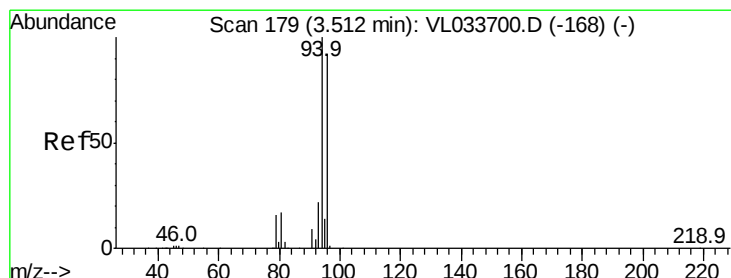
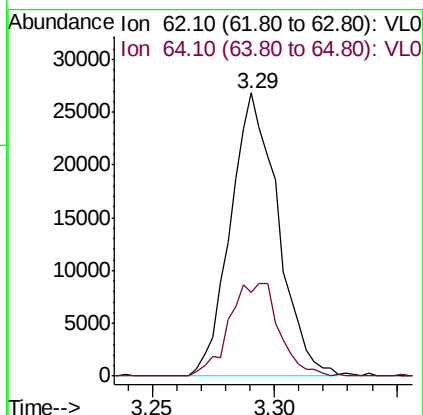
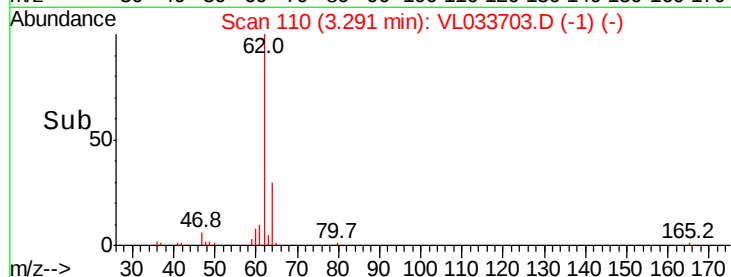
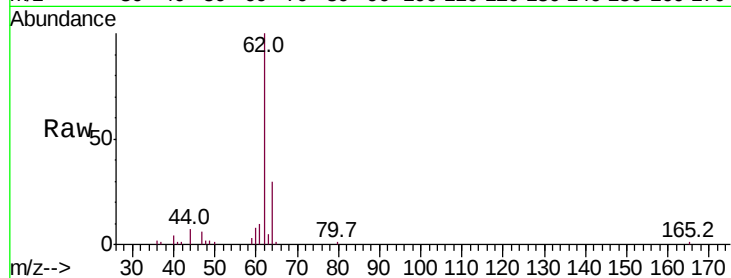
64 29.5 26.4 39.6

Manual Integrations

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#6

Bromomethane

Concen: 0.435 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033703.D

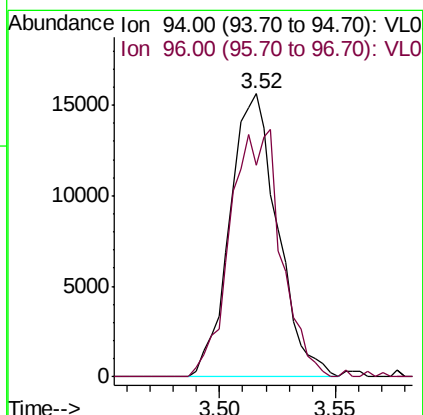
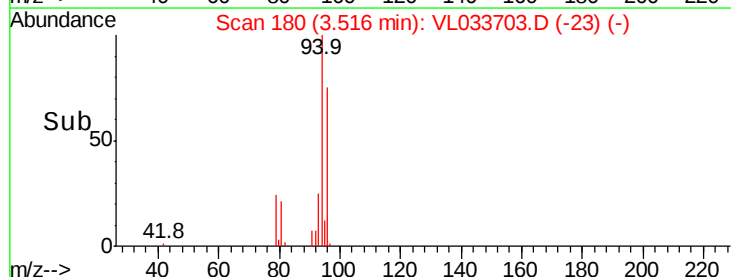
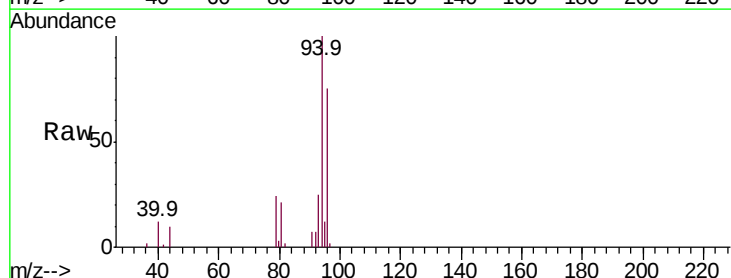
Acq: 17 May 2019 3:56

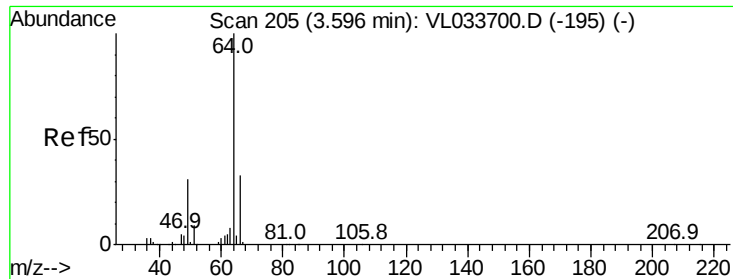
Tgt Ion: 94 Resp: 22315

Ion Ratio Lower Upper

94 100

96 76.9 73.6 110.4





#7

Chloroethane

Concen: 0.457 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 13404

Ion Ratio Lower Upper

64 100

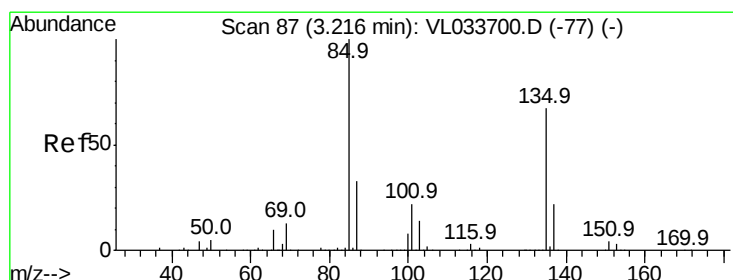
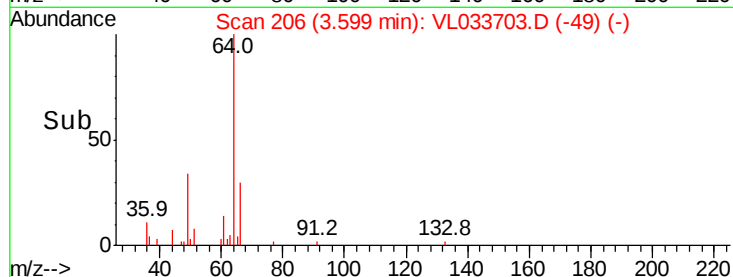
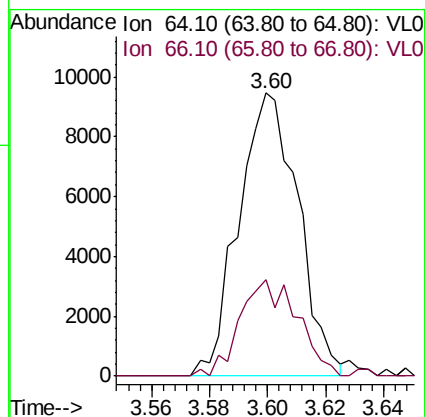
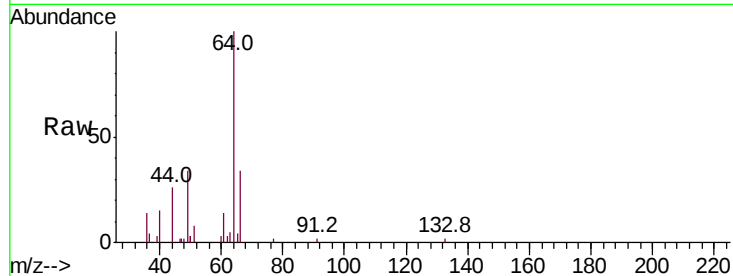
66 34.0 26.6 40.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.461 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033703.D

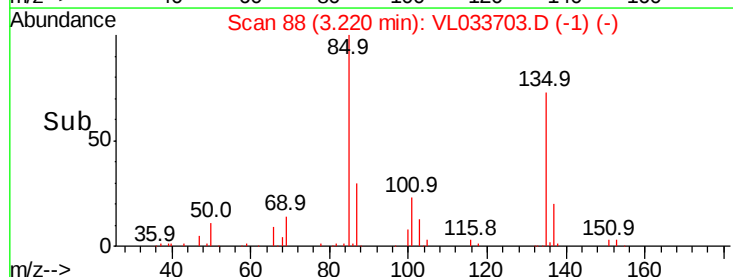
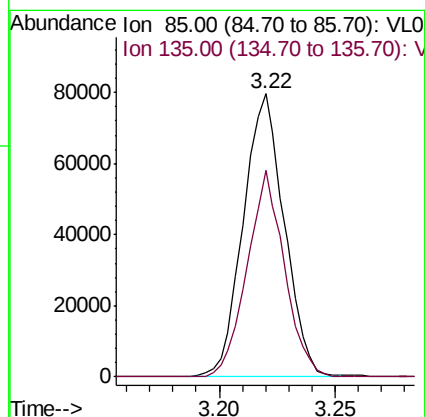
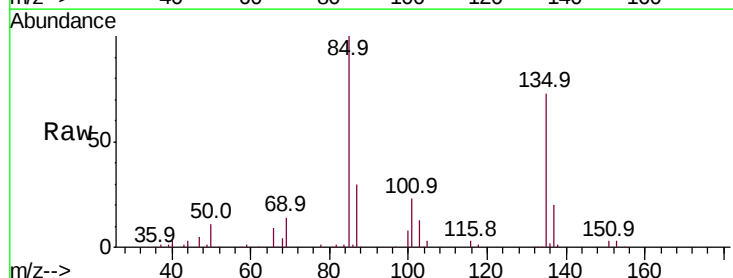
Acq: 17 May 2019 3:56

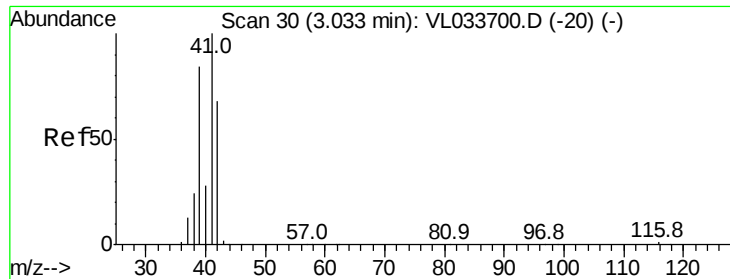
Tgt Ion: 85 Resp: 97931

Ion Ratio Lower Upper

85 100

135 66.6 54.5 81.7





#9

Propene

Concen: 0.421 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 25666

Ion Ratio Lower Upper

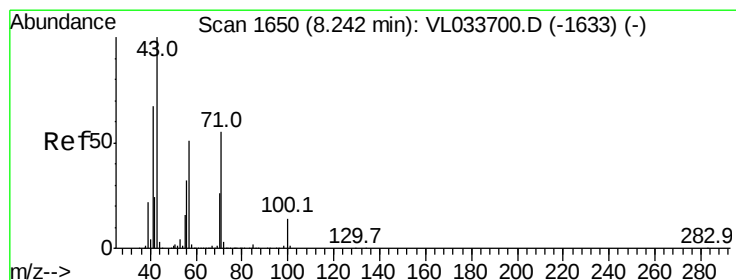
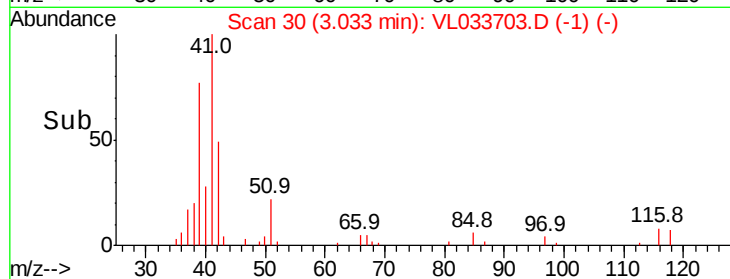
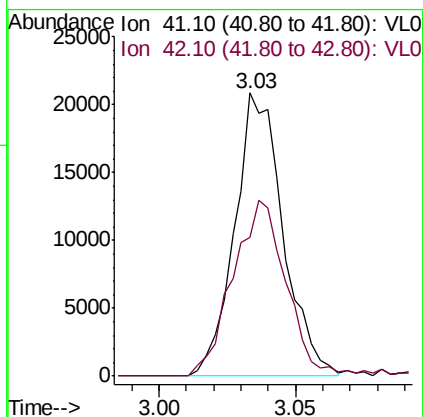
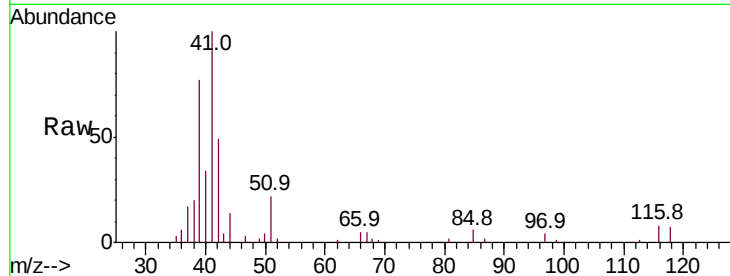
41 100

42 70.1 56.1 84.1

Manual Integrations
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#10

Heptane

Concen: 0.441 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033703.D

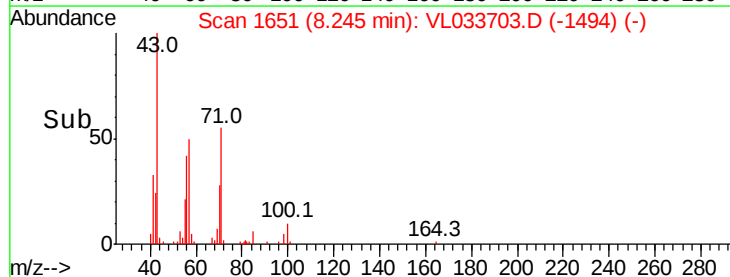
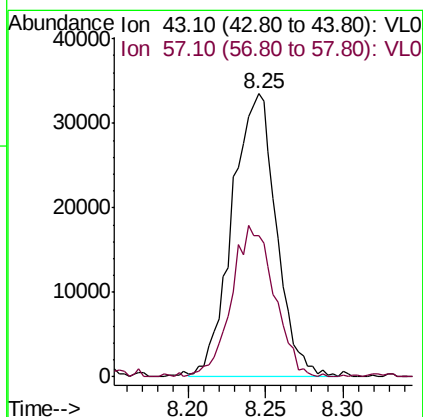
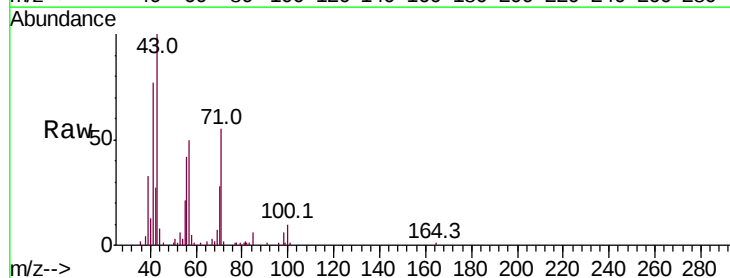
Acq: 17 May 2019 3:56

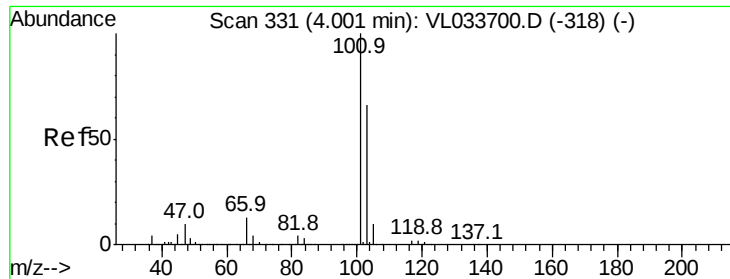
Tgt Ion: 43 Resp: 66574

Ion Ratio Lower Upper

43 100

57 51.9 41.4 62.0





#11

Trichlorofluoromethane

Concen: 0.461 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 112491

Ion Ratio Lower Upper

101 100

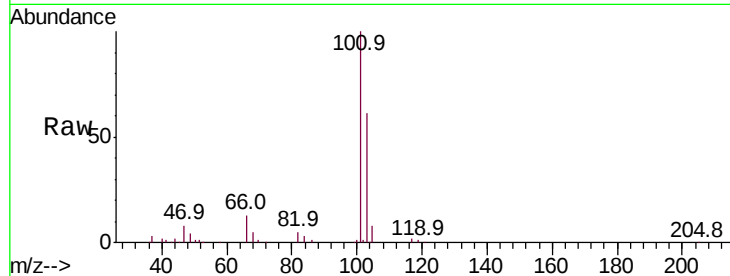
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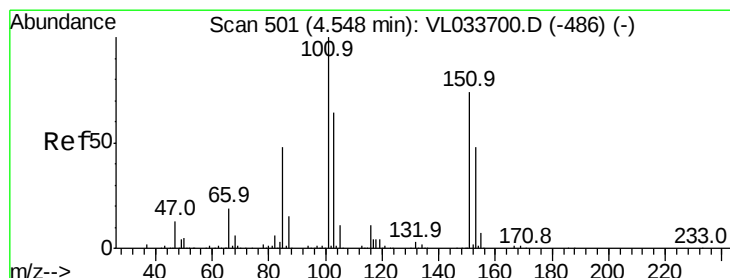
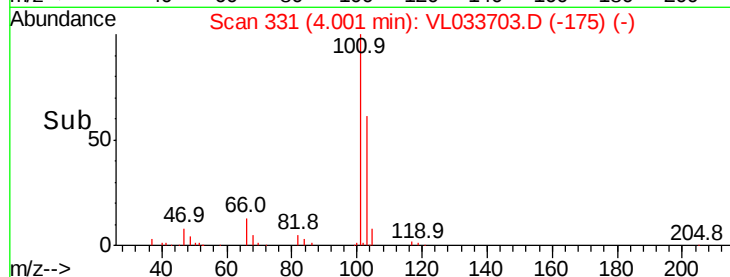
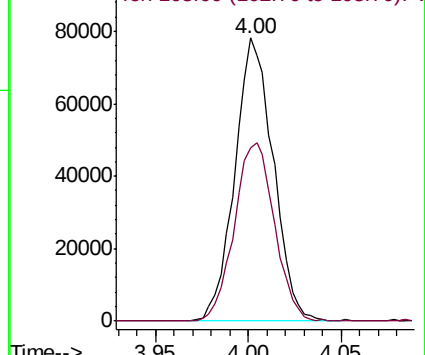
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.491 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033703.D

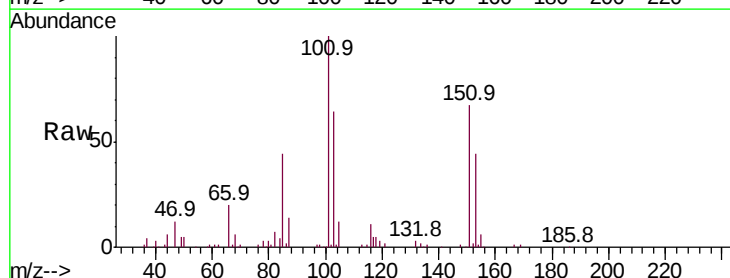
Acq: 17 May 2019 3:56

Tgt Ion:101 Resp: 80764

Ion Ratio Lower Upper

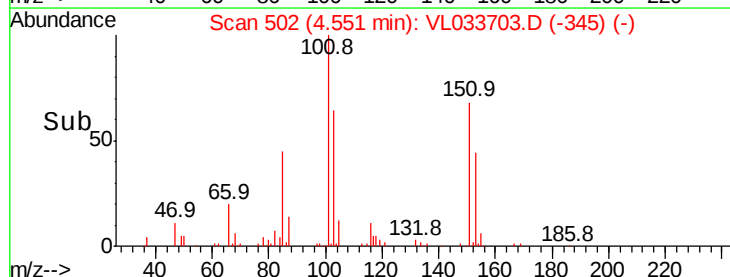
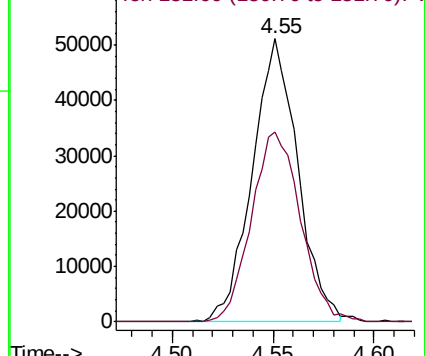
101 100

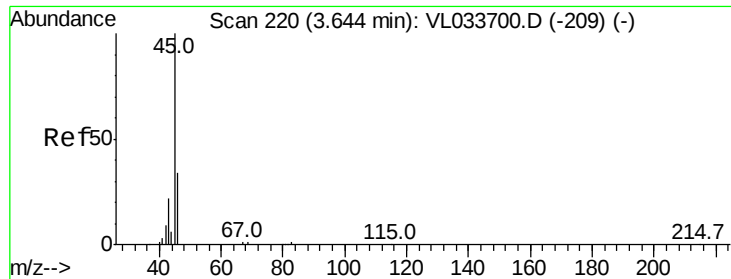
151 72.2 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





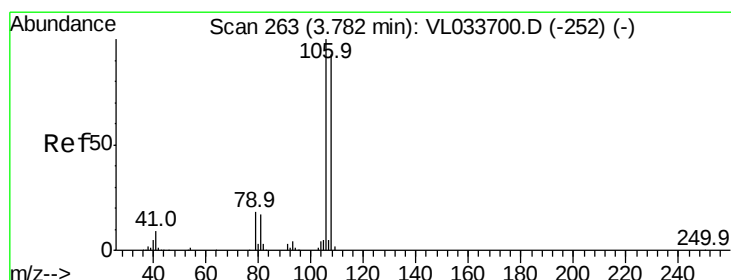
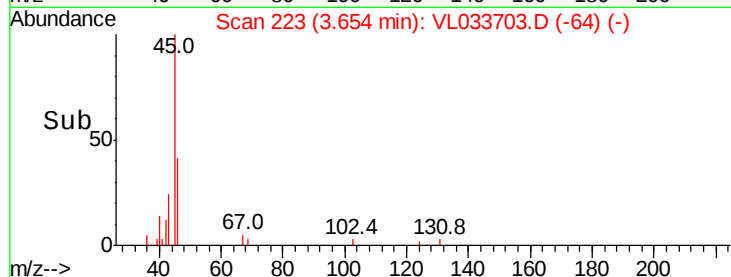
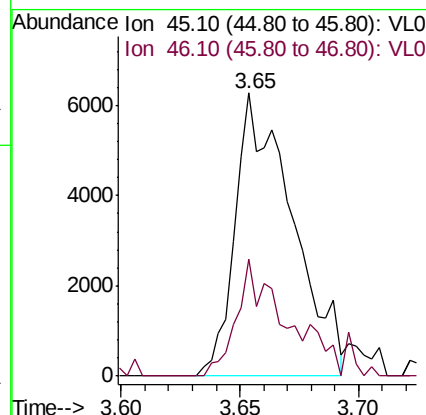
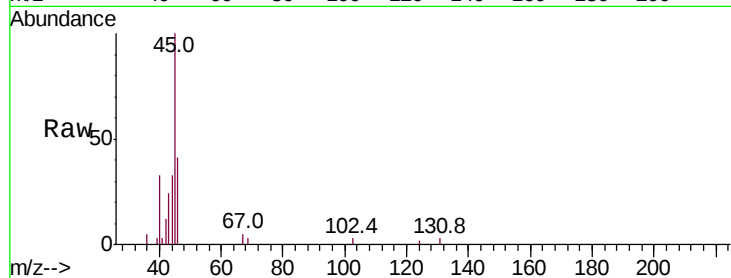
#13
Ethanol
Concen: 0.563 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	45	46	Ratio	100	38.2	Resp	Lower	Upper
45	100							
46		38.2				14.8	59.0	

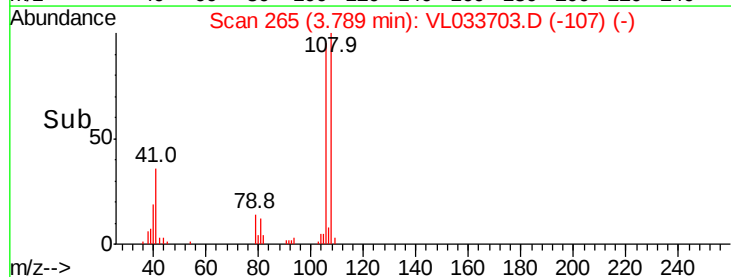
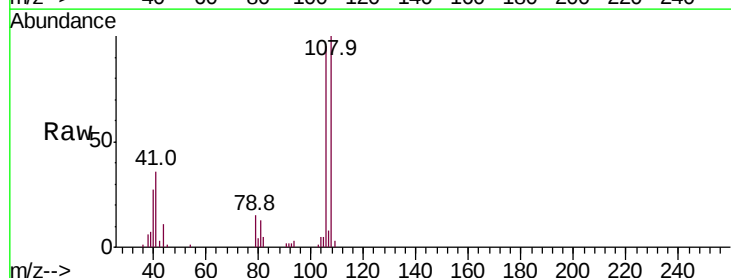
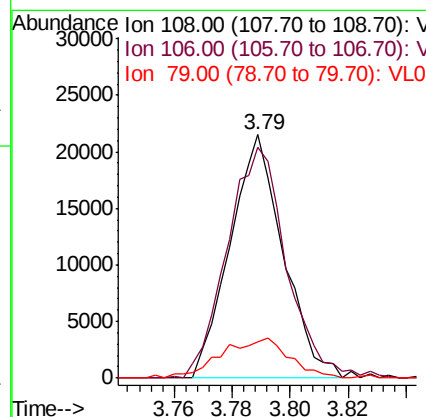
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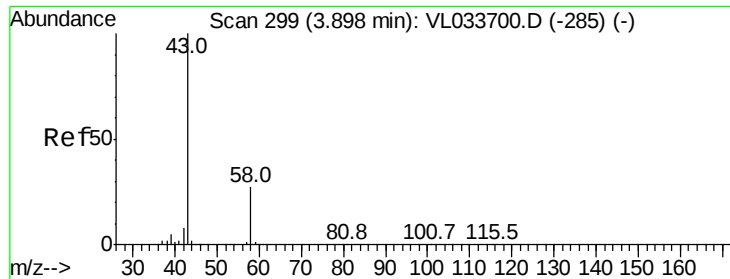
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#14
Bromoethene
Concen: 0.430 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	108	106	79	Ratio	100	106.4	21.3	Resp	Lower	Upper
108	100									
106		106.4				86.5	129.7			
79			21.3			15.1	22.7			





#15

Acetone

Concen: 0.498 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 82656

Ion Ratio Lower Upper

43 100

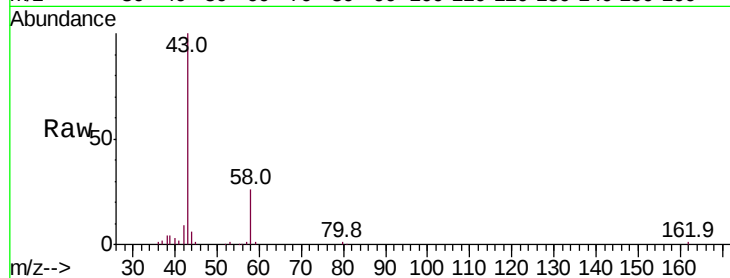
58 28.3 21.3 31.9

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

60000

40000

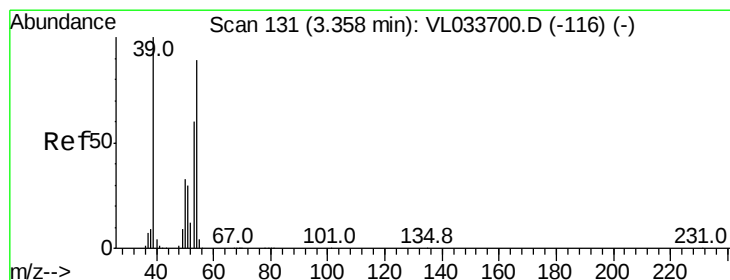
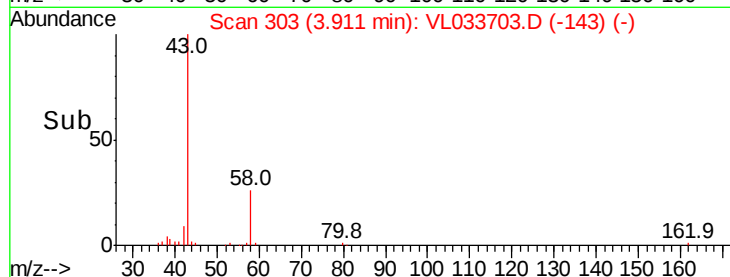
20000

0

3.91

3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 0.409 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.01 min

Lab File: VL033703.D

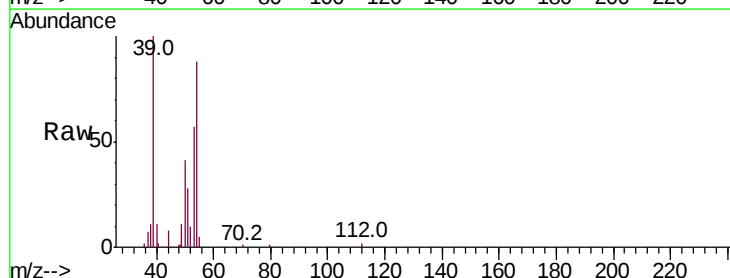
Acq: 17 May 2019 3:56

Tgt Ion: 39 Resp: 28512

Ion Ratio Lower Upper

39 100

54 82.3 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

20000

15000

10000

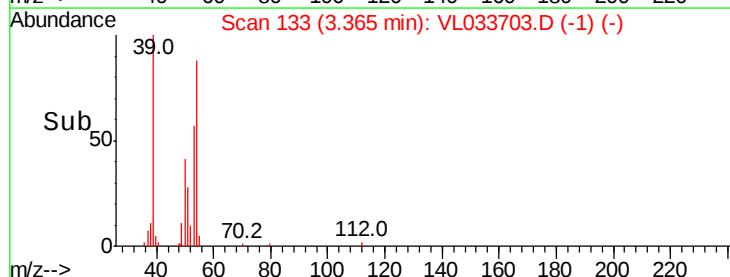
5000

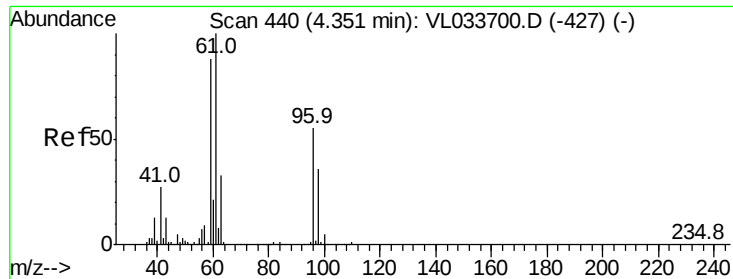
0

3.36

3.30 3.35 3.40

Time-->





#17

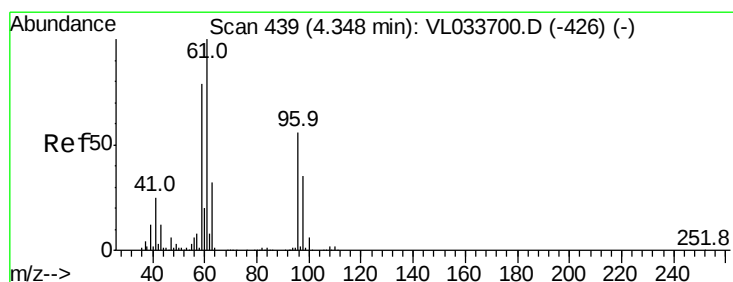
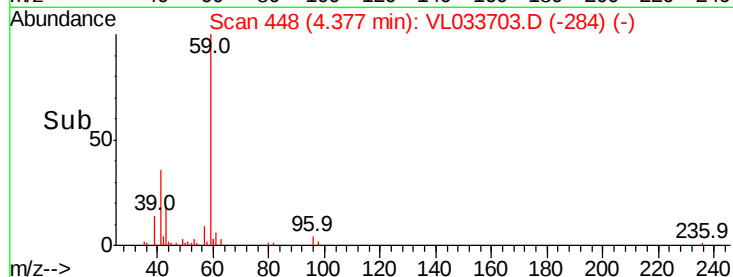
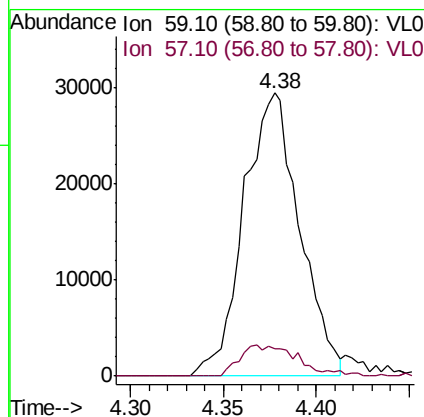
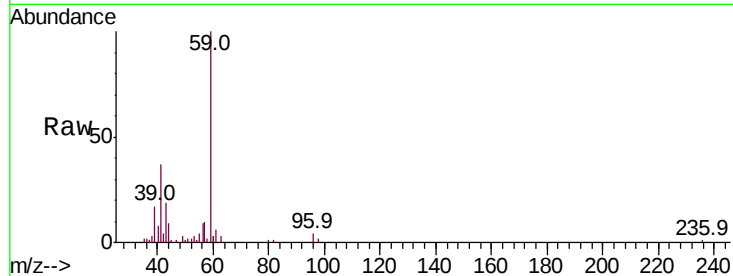
tert-Butyl alcohol
Concen: 0.483 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.03 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	59	Resp	61647
Ion Ratio	Lower	Upper	
59	100		
57	11.6	8.4	12.6

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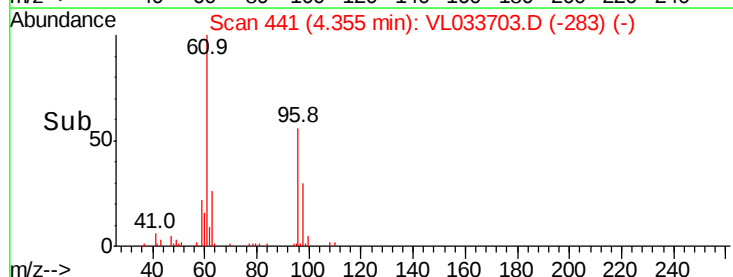
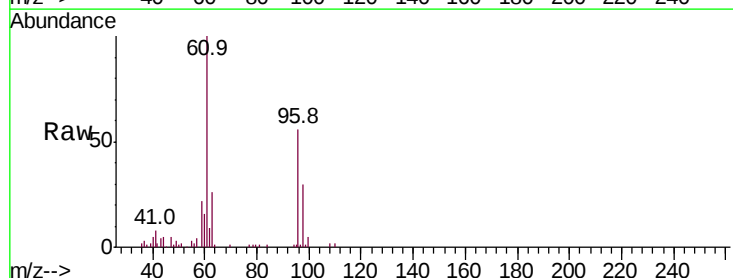
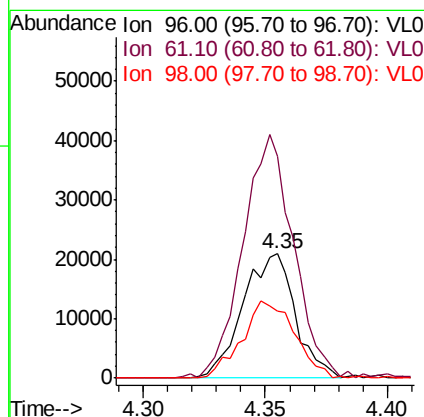
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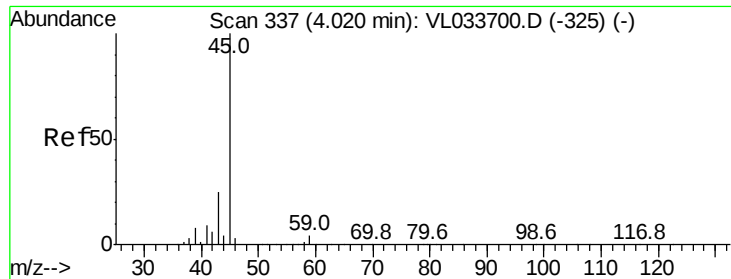


#18

1,1-Dichloroethene
Concen: 0.441 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	96	Resp	31275
Ion Ratio	Lower	Upper	
96	100		
61	172.3	143.1	214.7
98	52.7	49.5	74.3





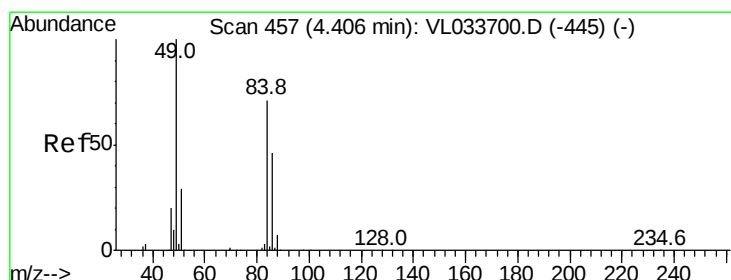
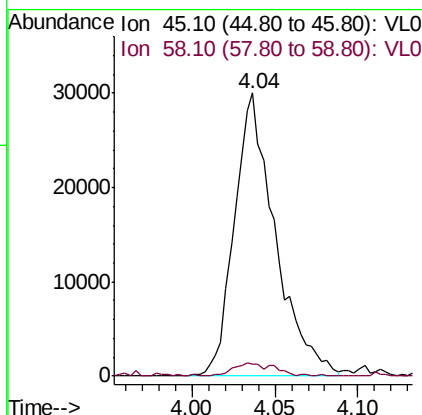
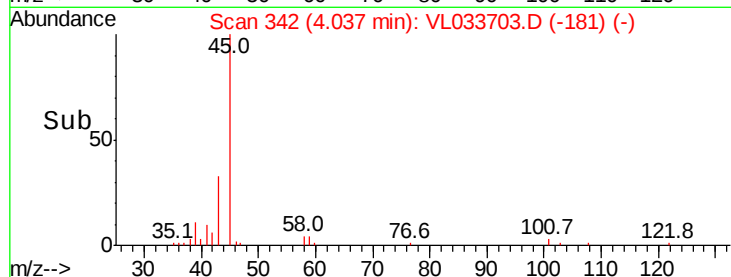
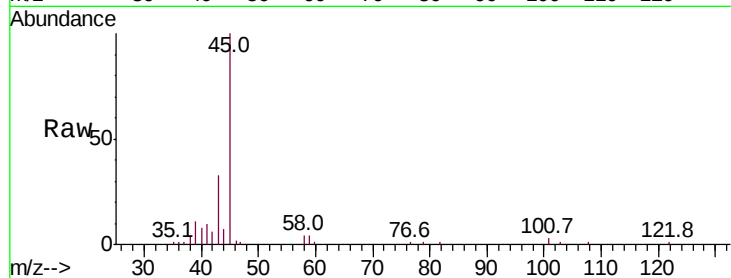
#19
Isopropyl Alcohol
Concen: 0.495 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.02 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 51349
Ion Ratio Lower Upper
45 100
58 4.9 1.6 2.4#

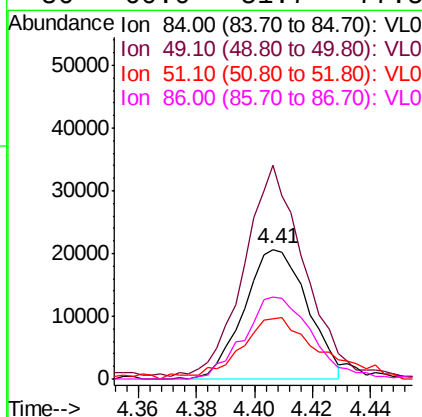
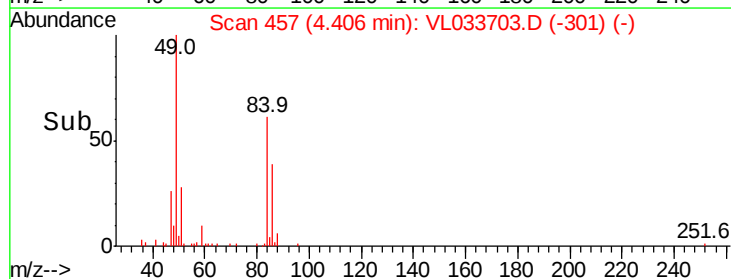
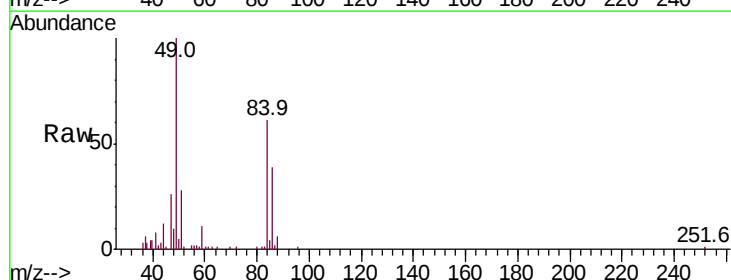
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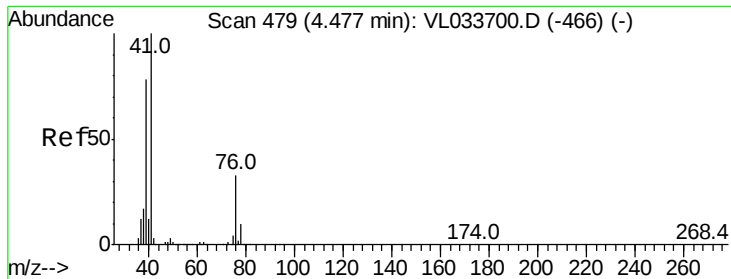
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#20
Methylene Chloride
Concen: 0.498 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion: 84 Resp: 31253
Ion Ratio Lower Upper
84 100
49 151.6 112.8 169.2
51 41.2 33.4 50.0
86 60.0 51.7 77.5





#21

Allvl Chloride

Concen: 0.459 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

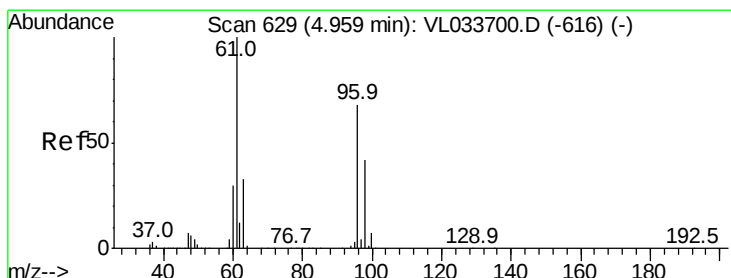
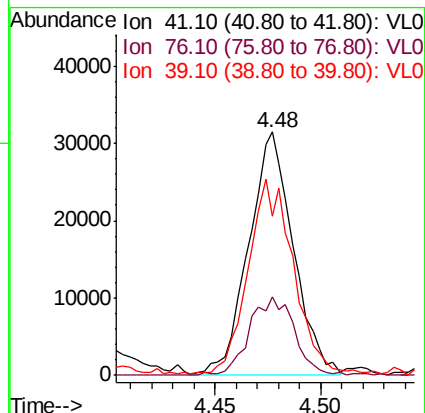
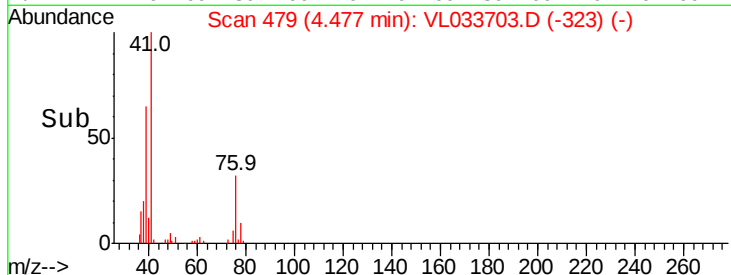
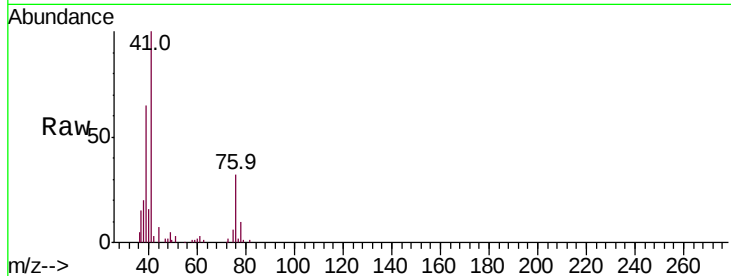
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	46285
Ion Ratio	Lower	Upper	
41	100		
76	32.7	25.9	38.9
39	82.8	64.6	97.0

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 0.476 ppbv

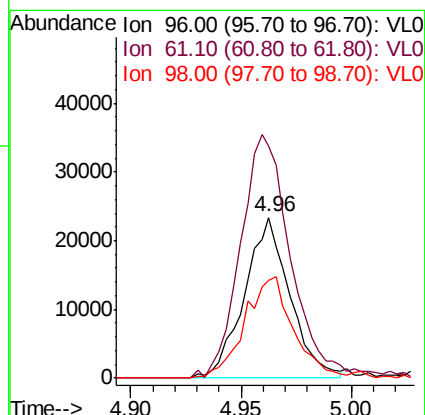
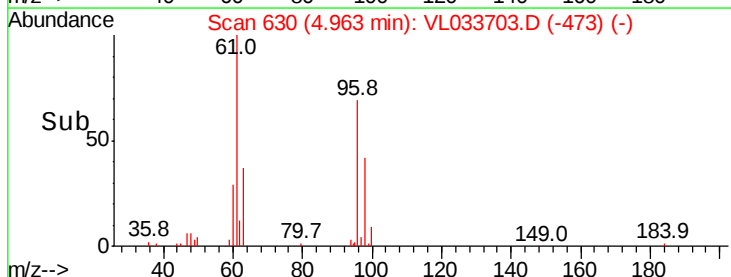
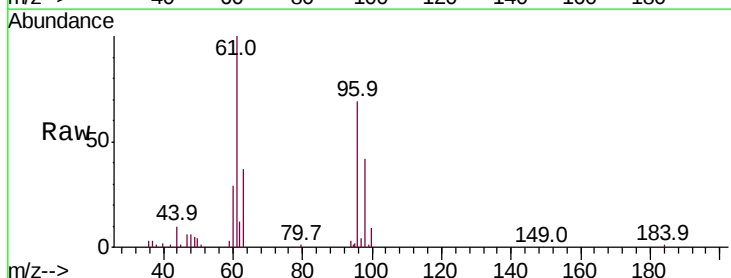
RT: 4.96 min Scan# 630

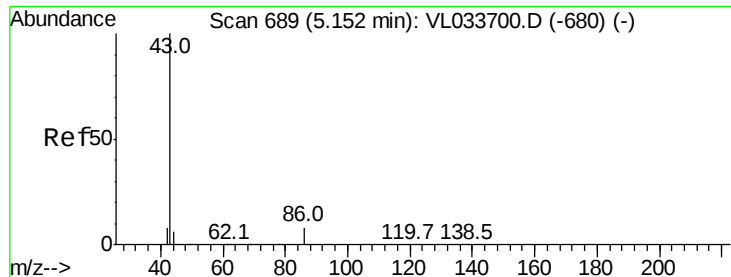
Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	96	Resp:	33419
Ion Ratio	Lower	Upper	
96	100		
61	144.7	116.8	175.2
98	60.7	49.4	74.0





#23

Vinyl Acetate

Concen: 0.434 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

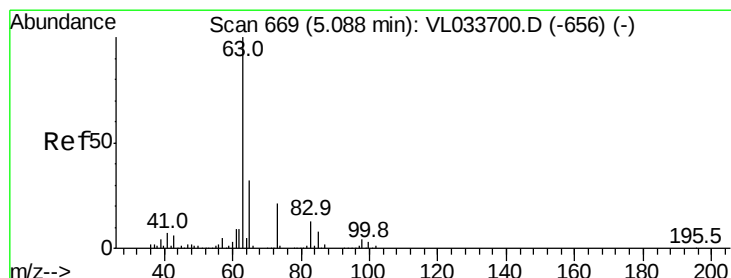
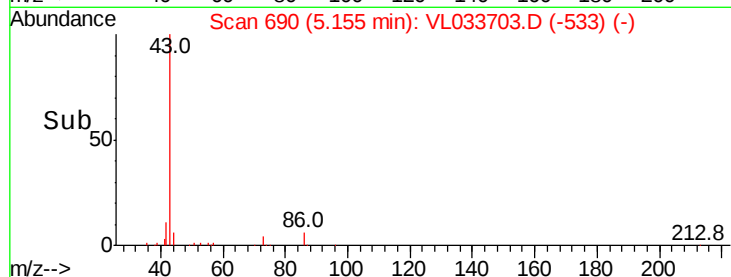
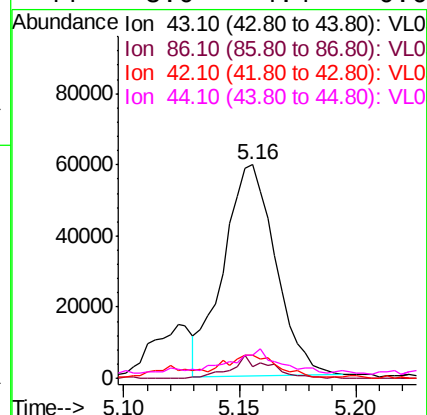
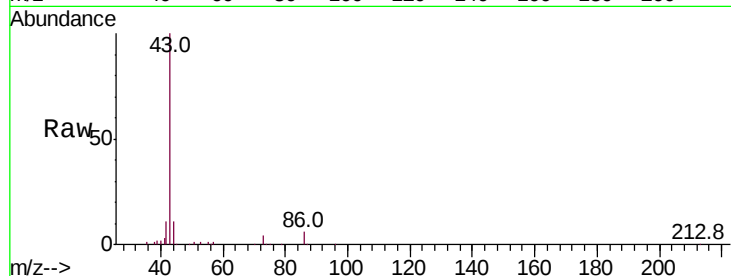
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
43	100	92916		
86	6.1		6.0	9.0
42	10.8		7.5	11.3
44	8.0		4.4	6.6

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.500 ppbv

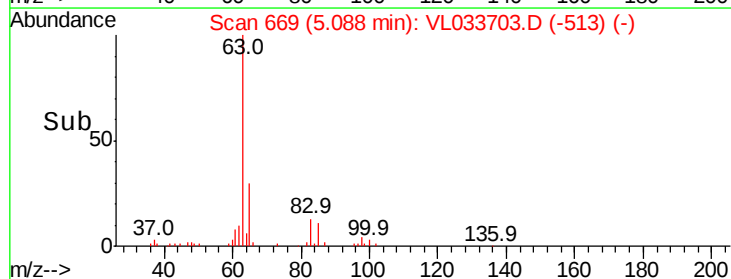
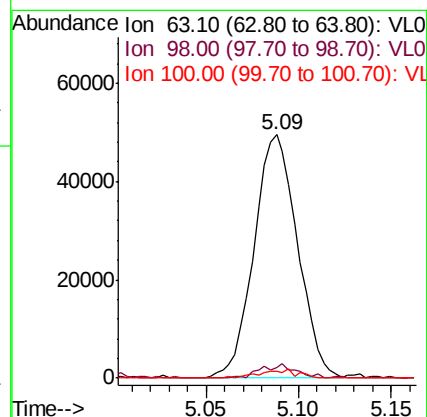
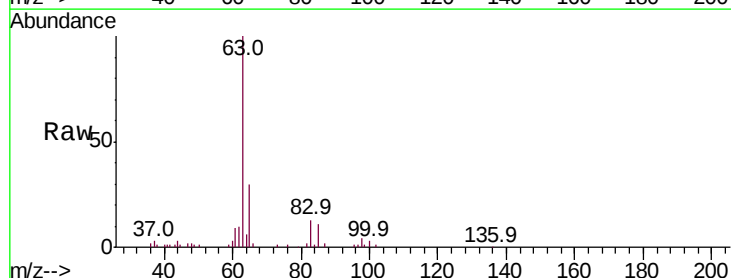
RT: 5.09 min Scan# 669

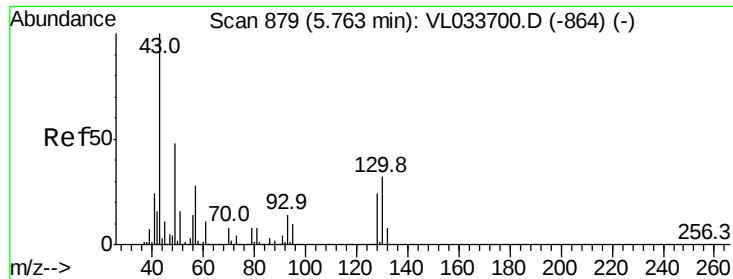
Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	80851		
98	4.5		1.8	5.5
100	3.0		1.4	4.2





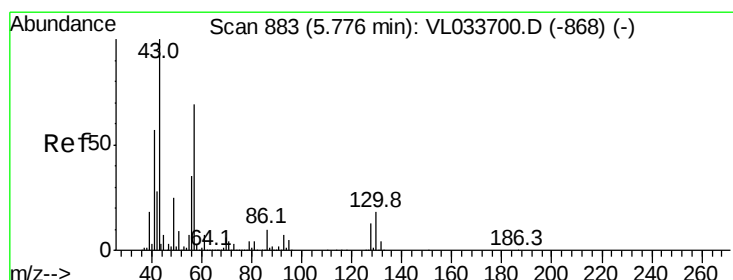
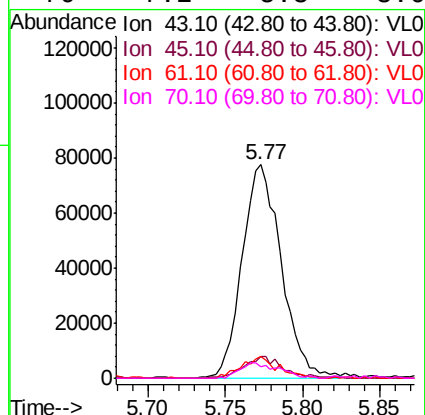
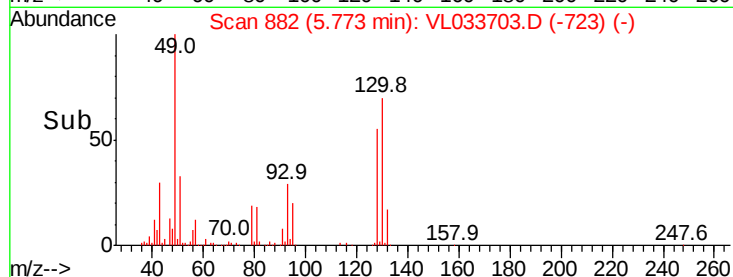
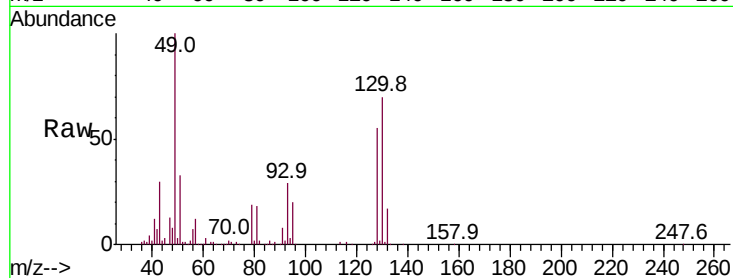
#25
Ethyl Acetate
Concen: 0.504 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.5	7.9	11.9		
61	9.3	7.7	11.5		
70	7.2	5.8	8.6		

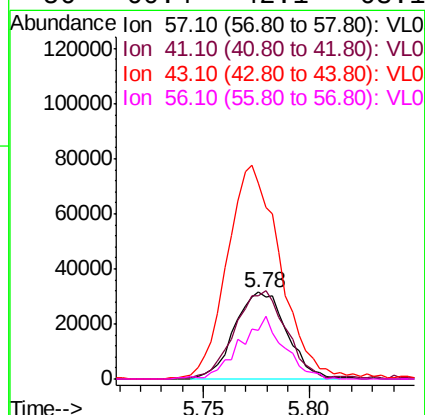
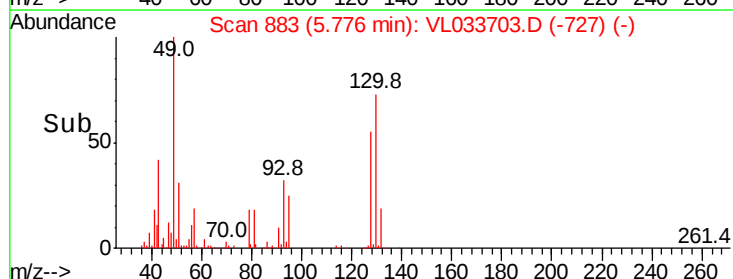
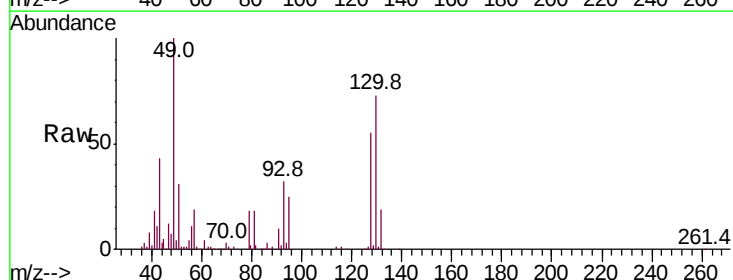
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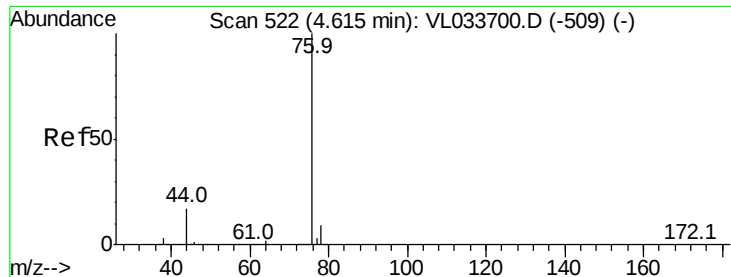
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#26
Hexane
Concen: 0.469 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	102.4	69.8	104.6		
43	253.6	181.8	272.6		
56	60.4	42.1	63.1		





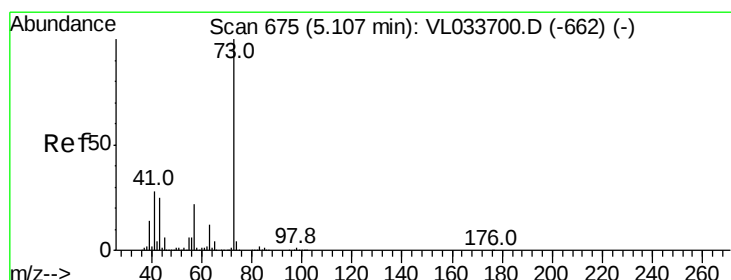
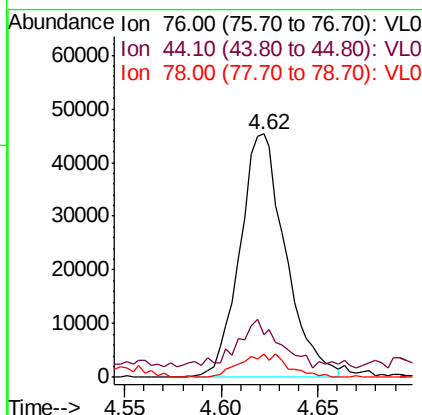
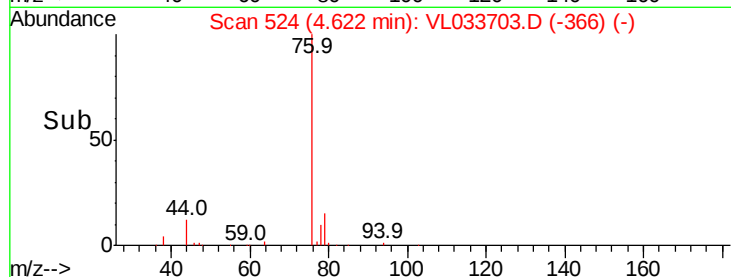
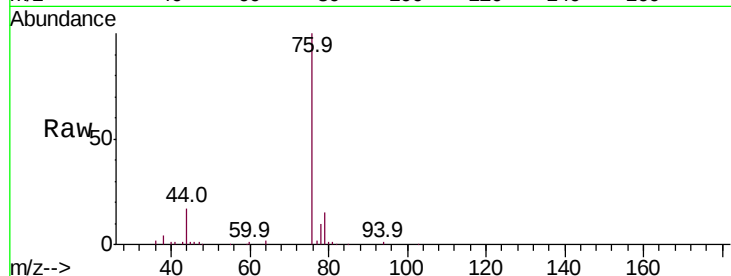
#27
Carbon Disulfide
Concen: 0.469 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	20.3	13.8	20.8
78	10.0	7.4	11.0

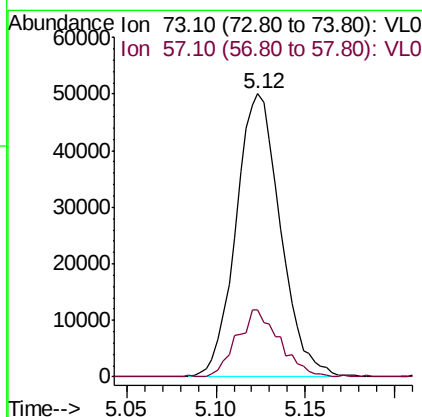
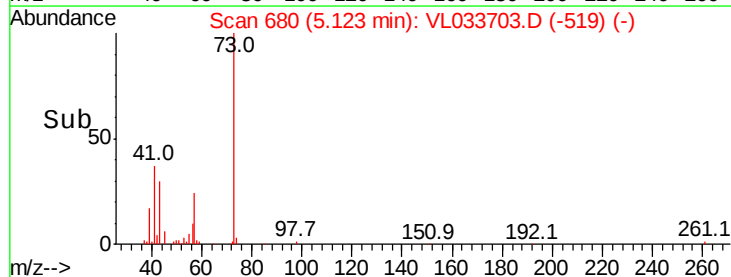
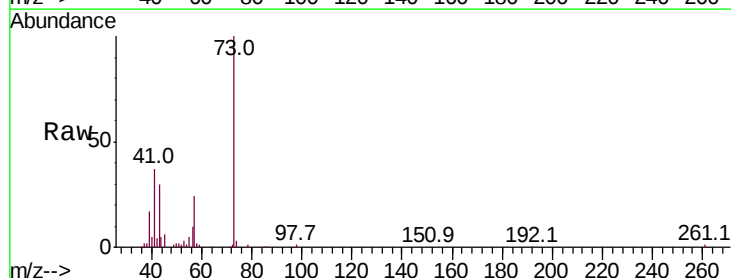
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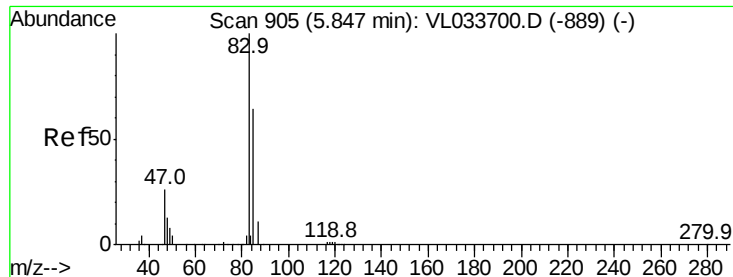
MMDadoda
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#28
Methyl tert-Butyl Ether
Concen: 0.448 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.02 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.4	26.2





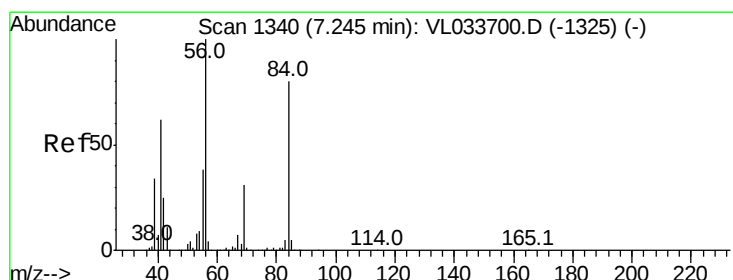
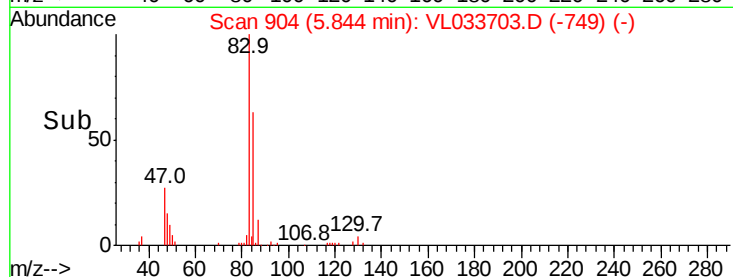
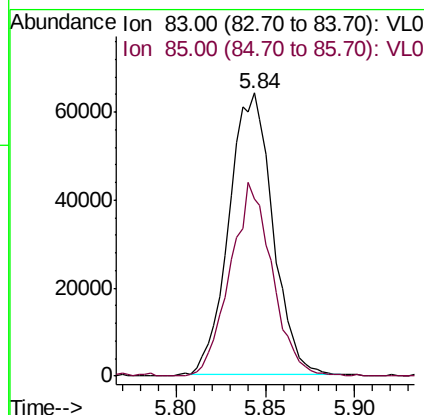
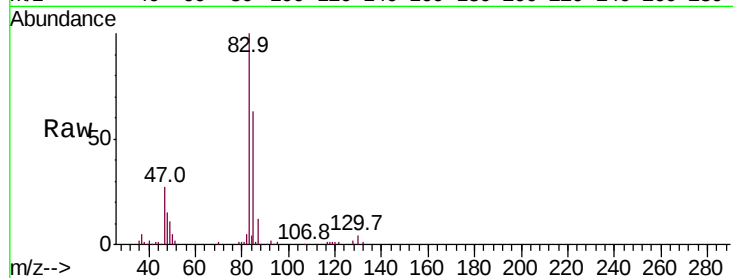
#29
Chloroform
Concen: 0.526 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
83	100	109725		
85	62.4	51.5	77.3	

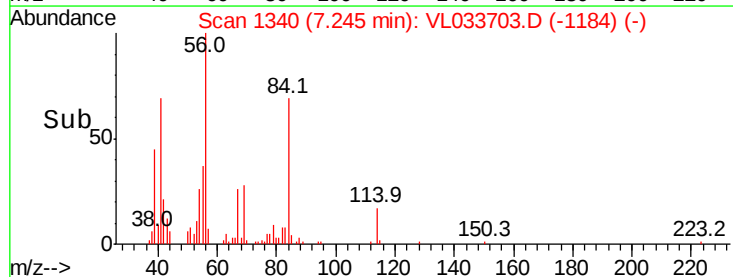
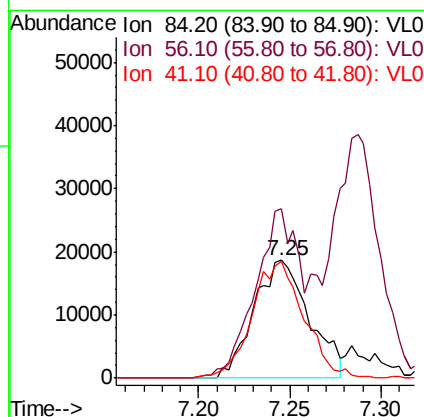
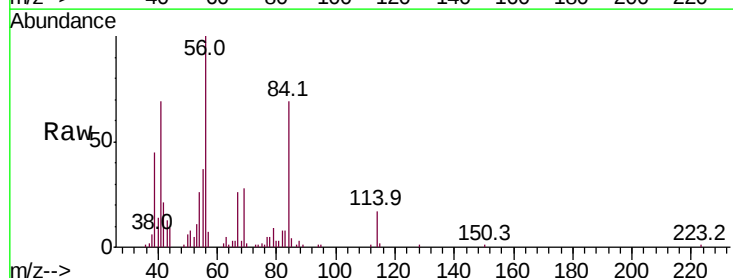
Manual Integrations
APPROVED

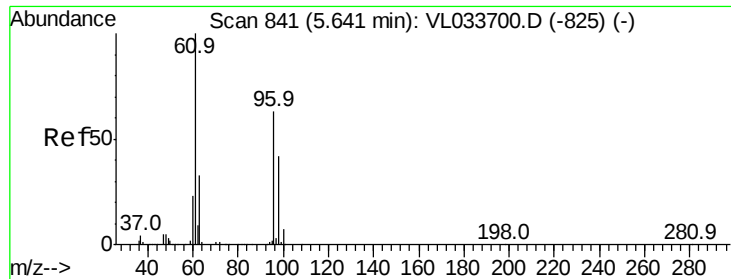
MMDadoda
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#30
Cyclohexane
Concen: 0.407 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	39492		
56	119.0	107.7	161.5	
41	92.9	66.0	99.0	





#31

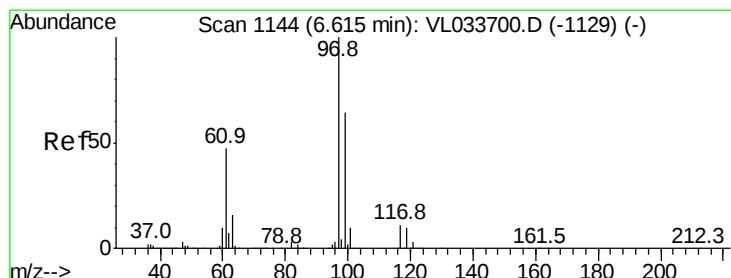
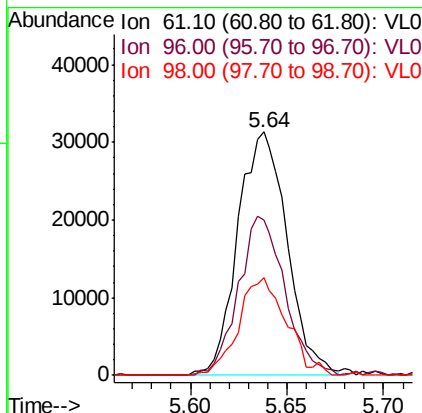
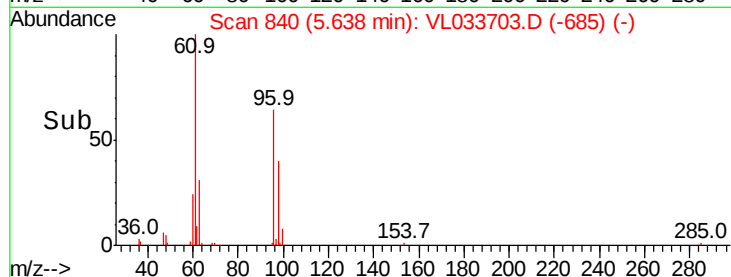
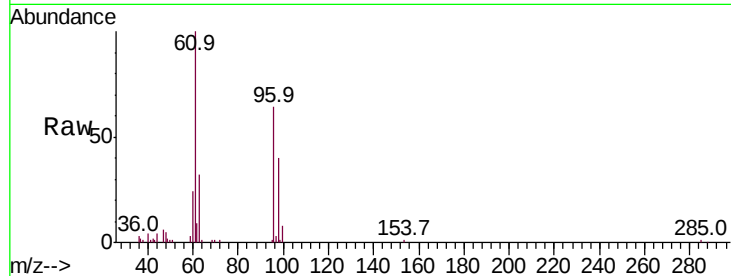
cis-1,2-Dichloroethene
 Concen: 0.486 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
61	100	55508		
96	63.8		50.8	76.2
98	41.3		33.3	49.9

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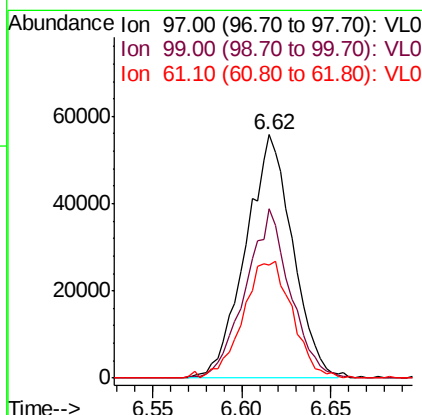
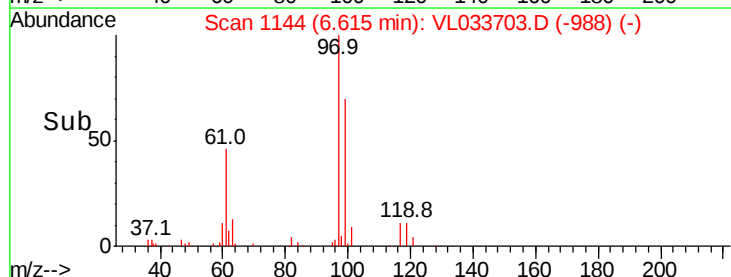
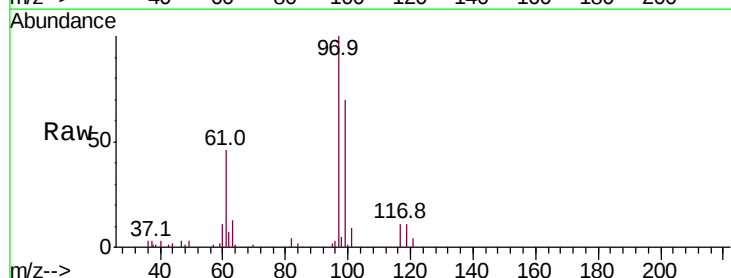
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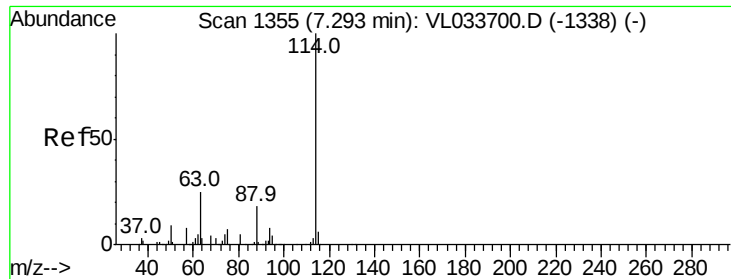


#32

1,1,1-Trichloroethane
 Concen: 0.478 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	102686		
99	66.1		51.5	77.3
61	50.6		37.8	56.8





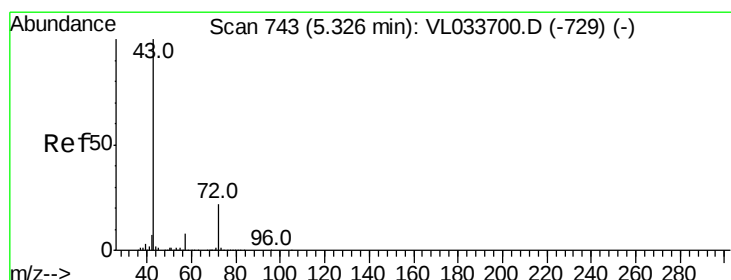
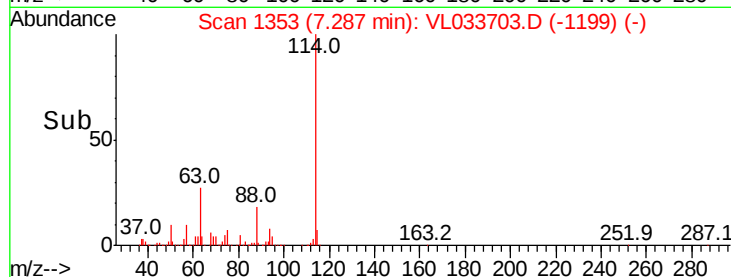
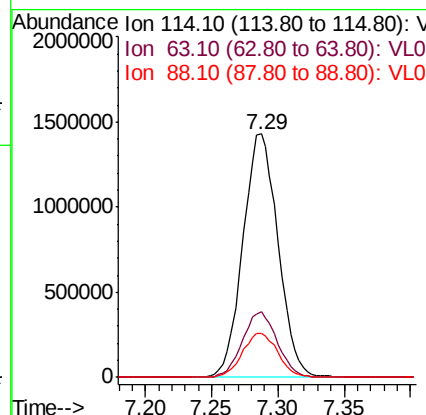
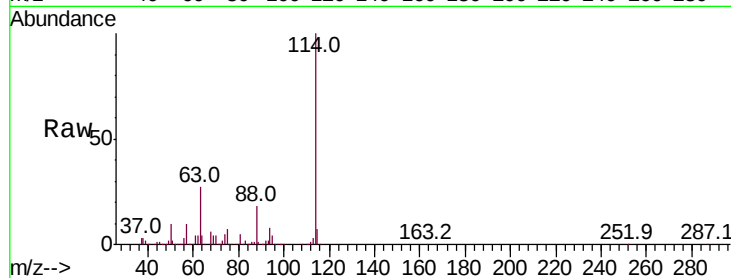
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	20.9	31.3
88	18.2	14.3	21.5

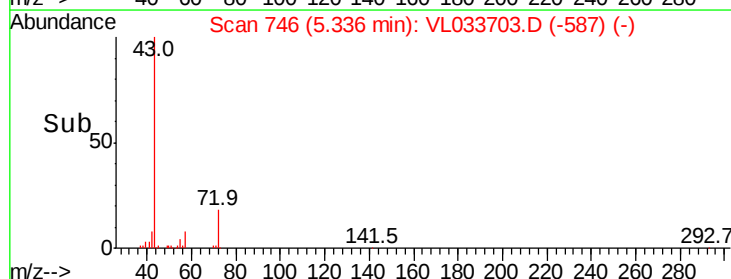
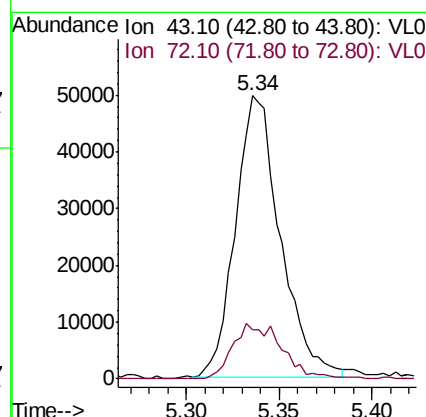
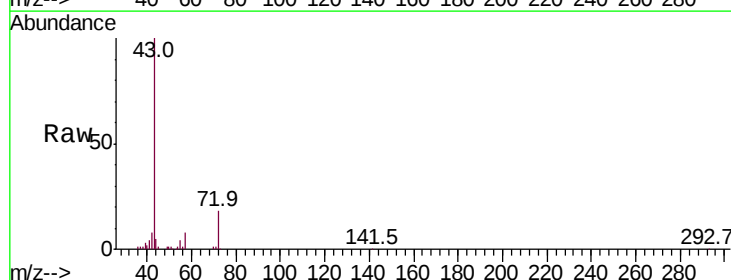
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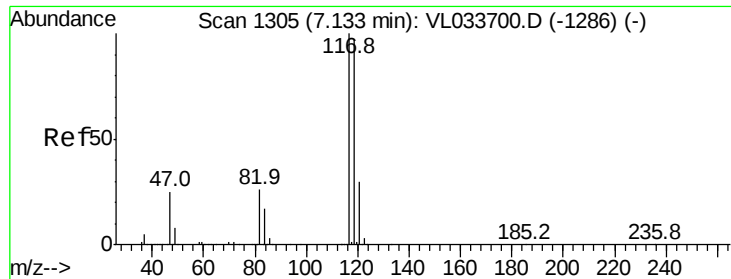
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#34
 2-Butanone
 Concen: 0.493 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.8	26.6





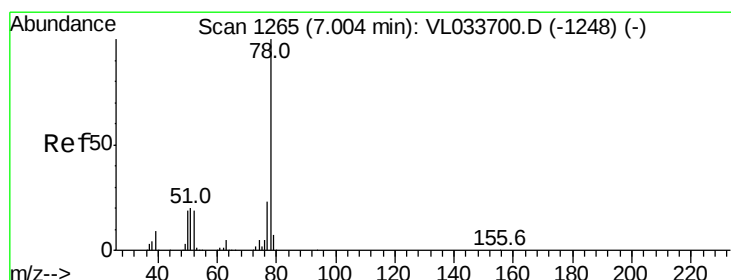
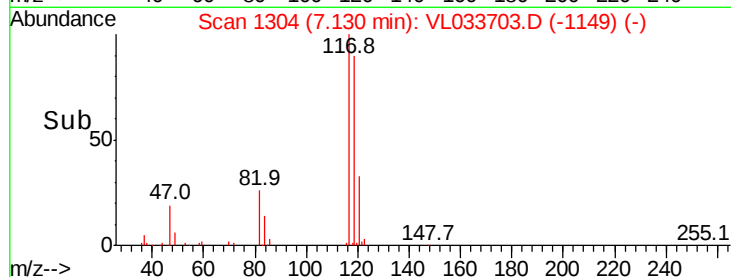
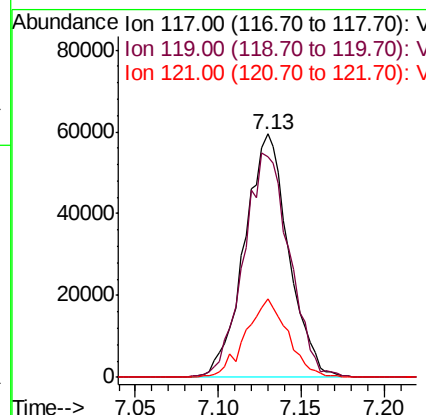
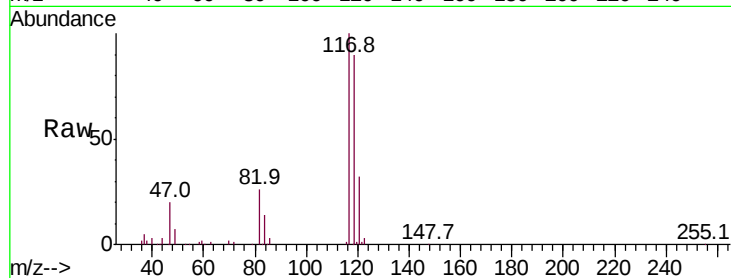
#35
Carbon Tetrachloride
Concen: 0.507 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	89.7	77.2	115.8
121	33.5	24.1	36.1

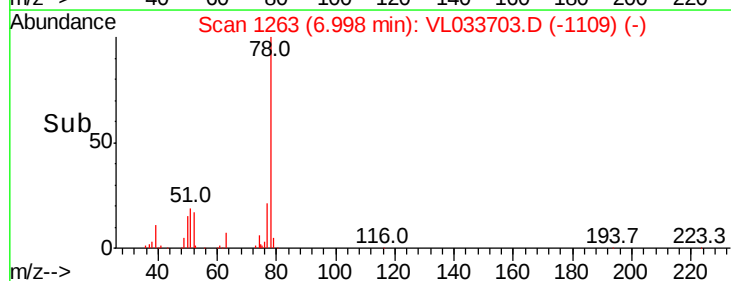
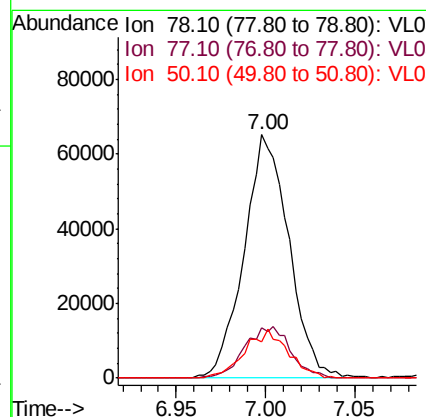
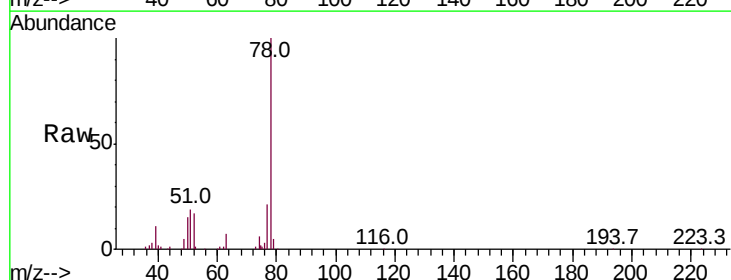
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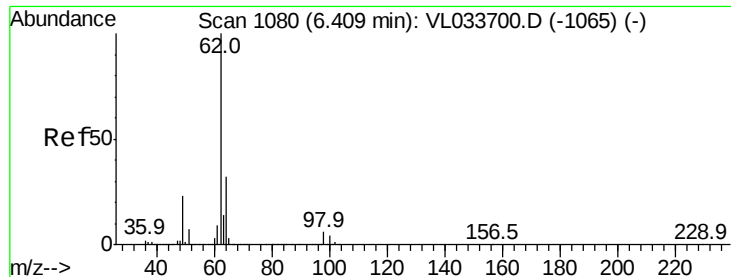
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#36
Benzene
Concen: 0.478 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.9	18.4	27.6
50	14.9	15.5	23.3#





#37

1,2-Dichloroethane

Concen: 0.470 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 78165

Ion Ratio Lower Upper

62 100

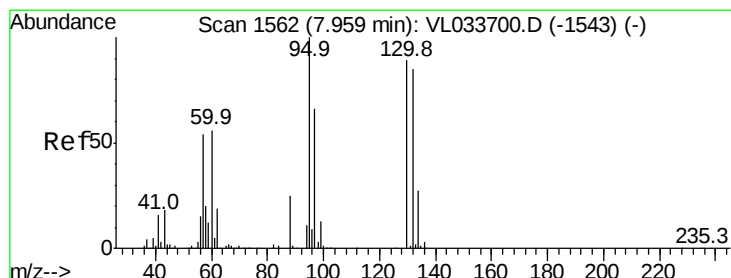
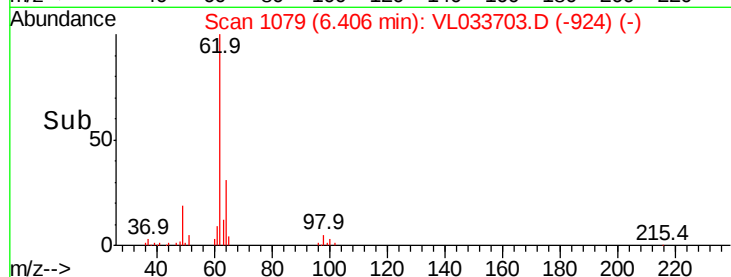
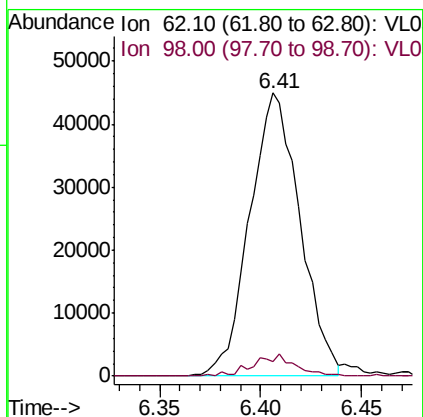
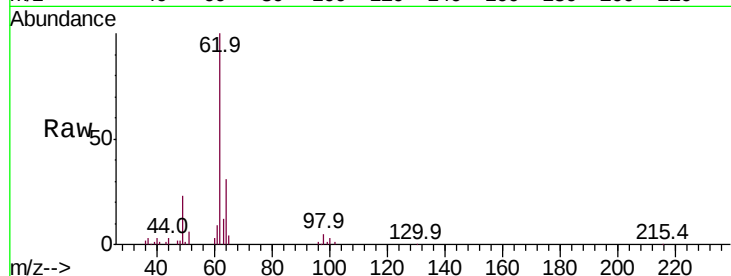
98 6.5 4.5 6.7

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#38

Trichloroethene

Concen: 0.508 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion: 130 Resp: 44166

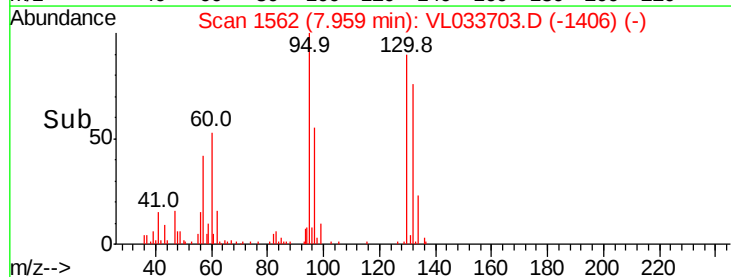
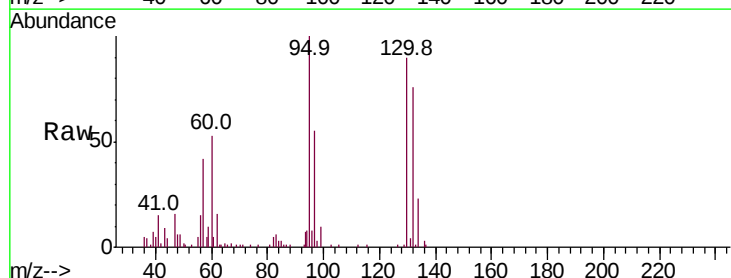
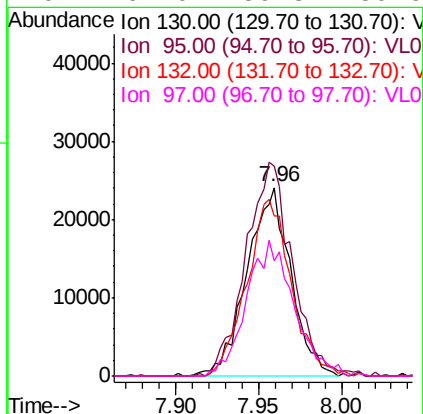
Ion Ratio Lower Upper

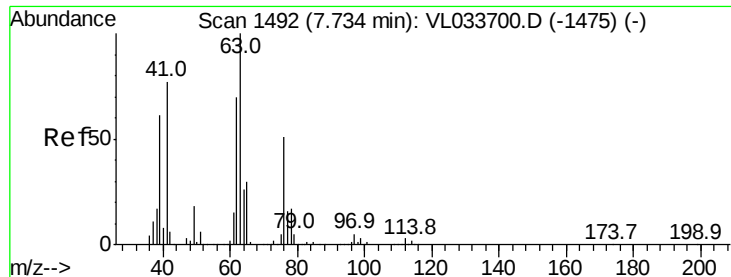
130 100

95 111.1 90.2 135.4

132 86.3 76.4 114.6

97 61.0 59.8 89.6





#39

1,2-Dichloropropane

Concen: 0.481 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

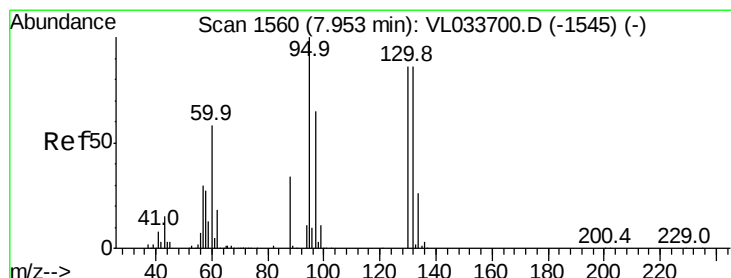
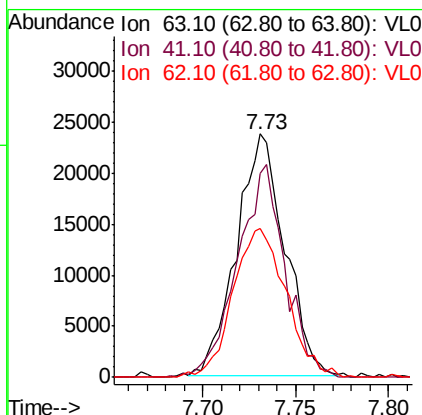
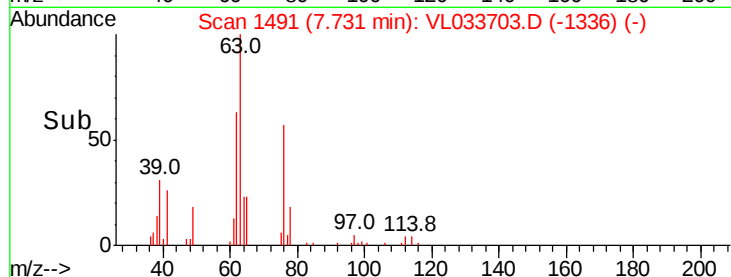
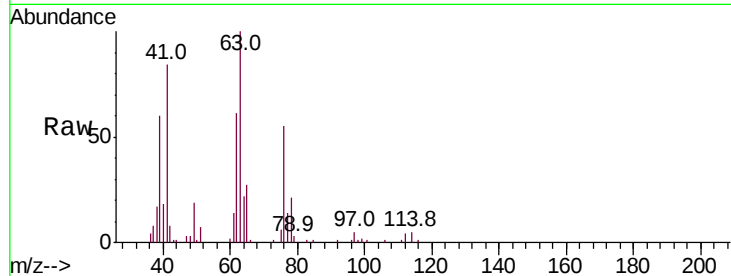
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	42734
Ion Ratio	Lower	Upper	
63	100		
41	84.6	61.5	92.3
62	59.3	56.2	84.4

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#40

1,4-Dioxane

Concen: 0.508 ppbv m

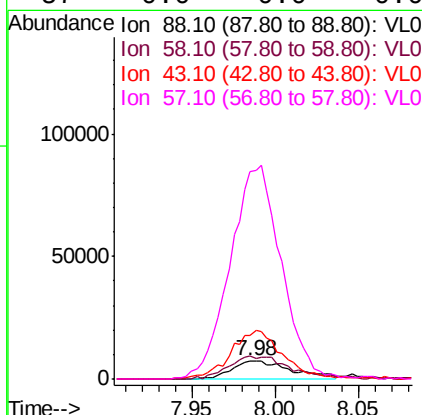
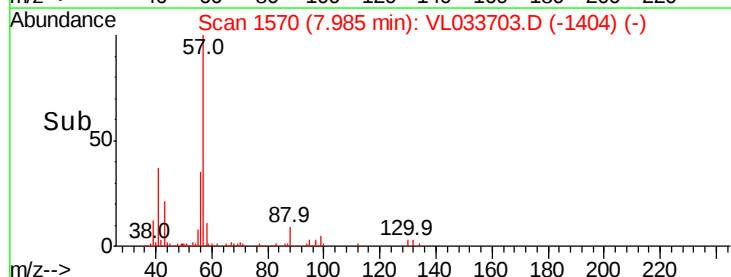
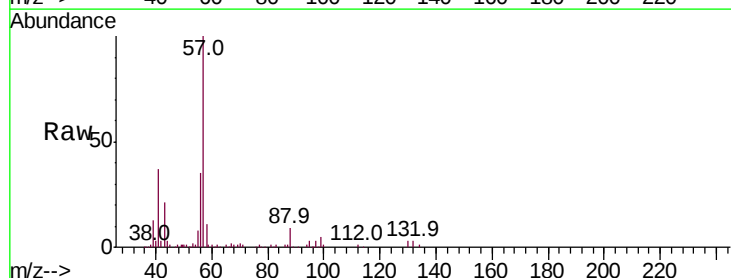
RT: 7.98 min Scan# 1570

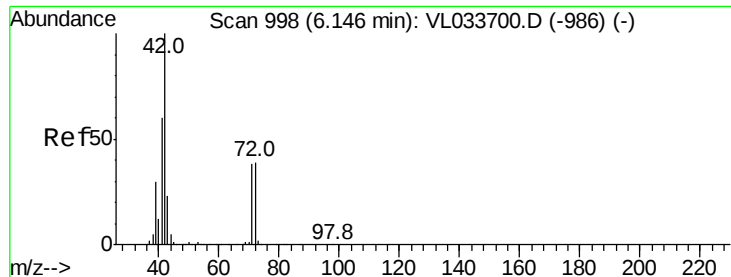
Delta R.T. 0.03 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	88	Resp:	18275
Ion Ratio	Lower	Upper	
88	100		
58	0.0	101.8	152.6#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.444 ppbv m

RT: 6.17 min Scan# 1005

Delta R.T. 0.02 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

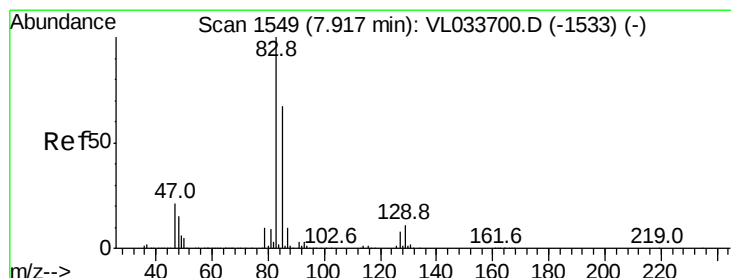
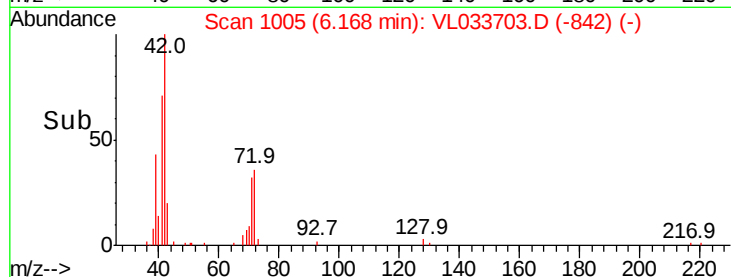
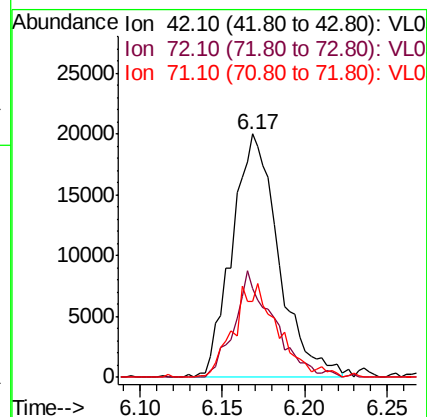
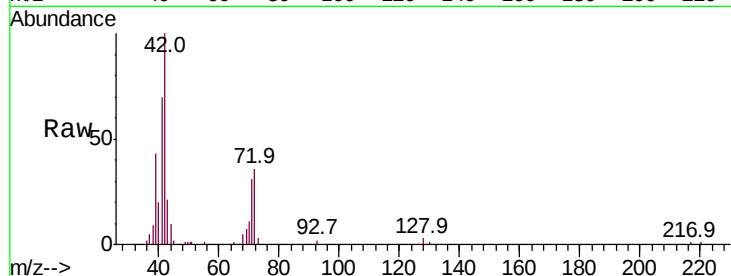
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	39335
Ion Ratio	Lower	Upper	
42	100		
72	37.4	32.0	48.0
71	37.1	30.4	45.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.472 ppbv

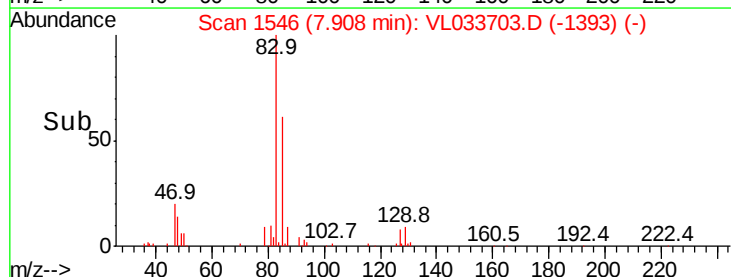
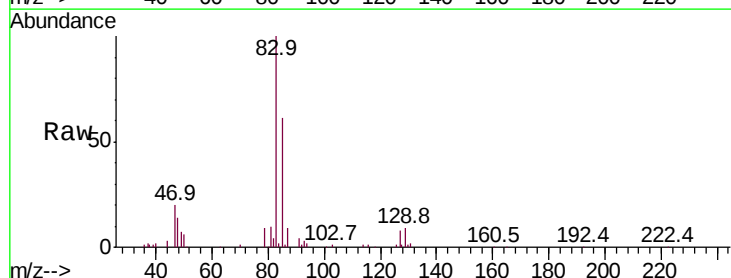
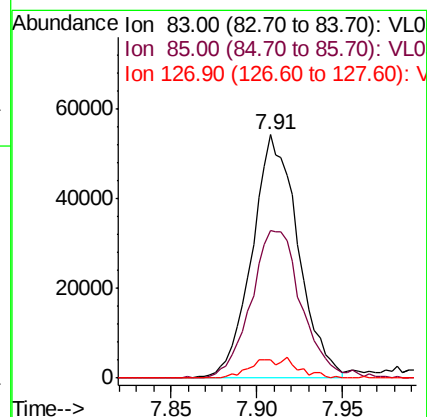
RT: 7.91 min Scan# 1546

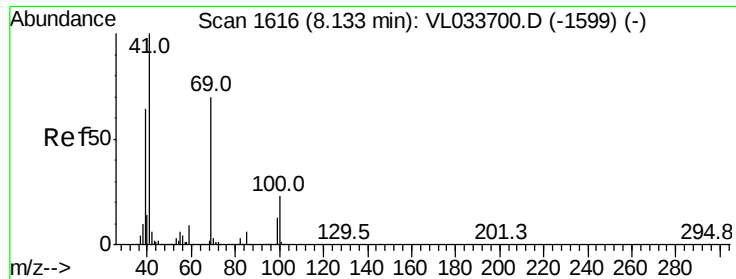
Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	83	Resp:	100886
Ion Ratio	Lower	Upper	
83	100		
85	60.6	53.3	79.9
127	8.4	6.5	9.7





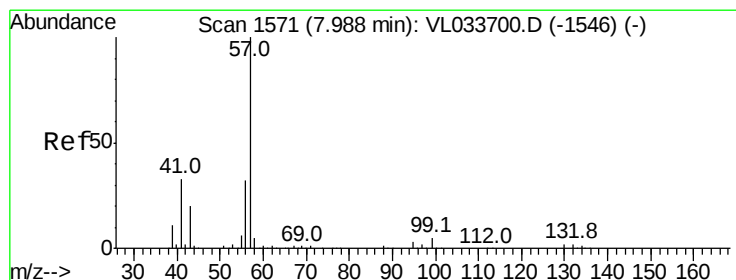
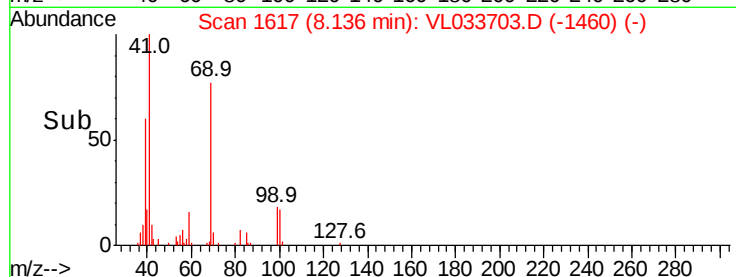
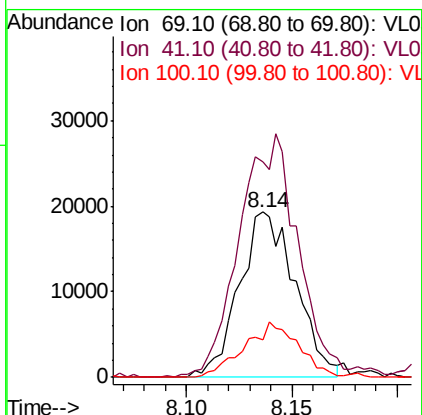
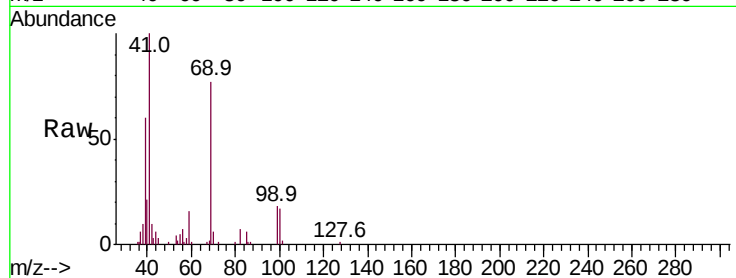
#43
Methyl Methacrylate
Concen: 0.399 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	156.4	116.3	174.5
100	32.9	25.3	37.9

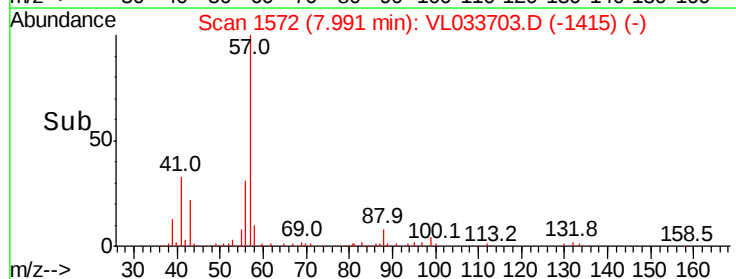
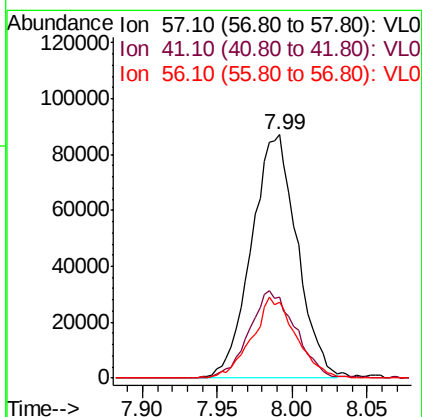
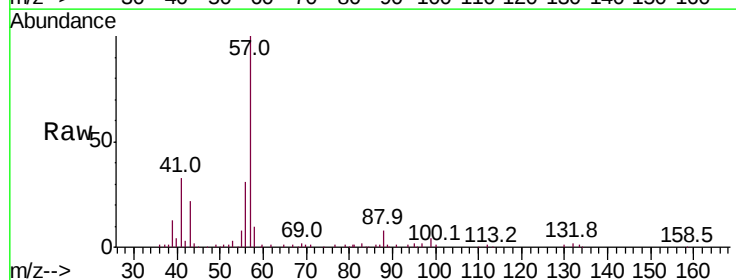
Manual Integrations
APPROVED

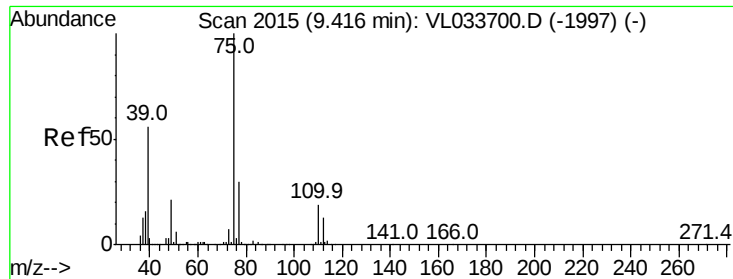
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#44
2,2,4-Trimethylpentane
Concen: 0.454 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.4	25.4	38.0
56	32.0	24.7	37.1





#45

t-1,3-Dichloropropene

Concen: 0.368 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :
MSVOA_L

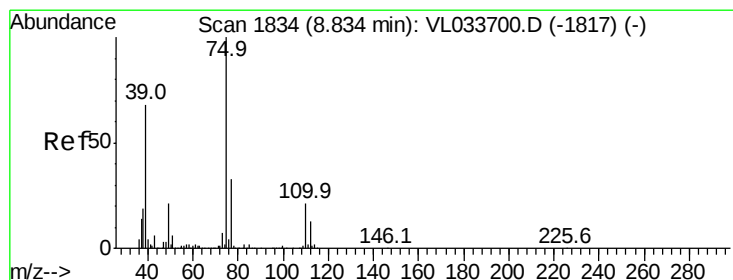
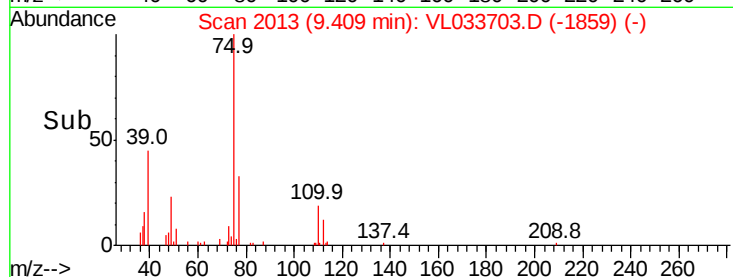
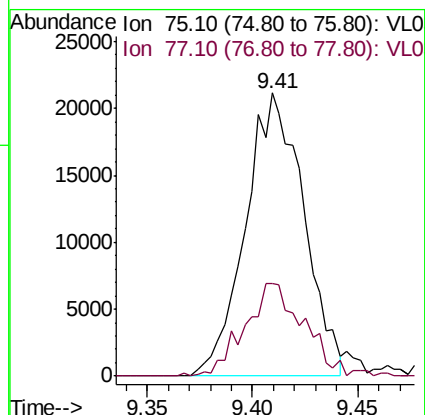
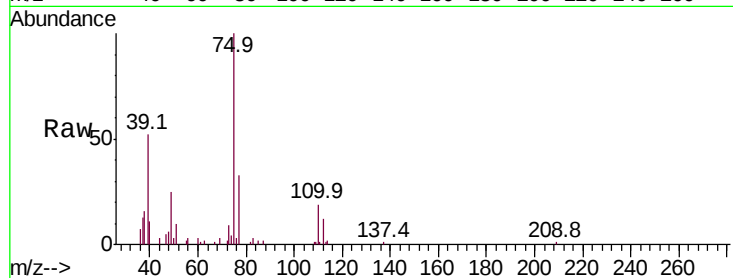
ClientSampleId :
VSTDIC0.5

Tot Ion: 75 Resp: 40662

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.4	36.6

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#46

cis-1,3-Dichloropropene

Concen: 0.357 ppbv

RT: 8.83 min Scan# 1832

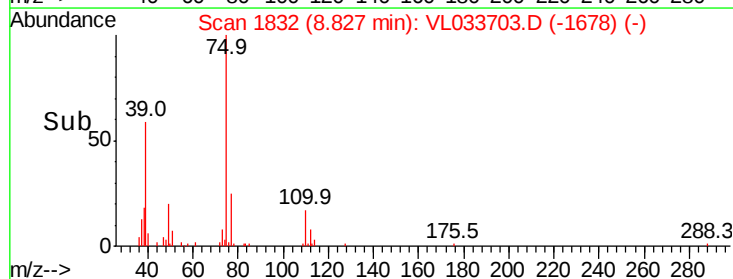
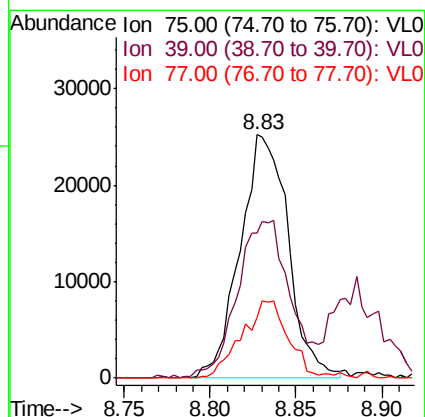
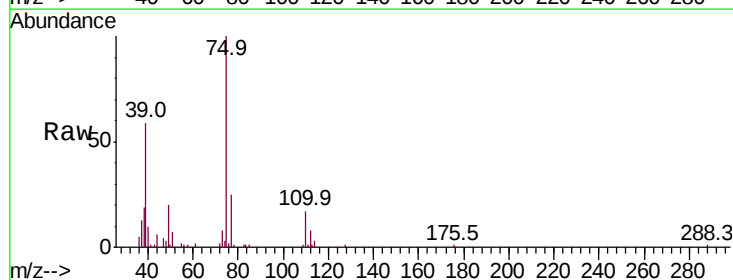
Delta R.T. -0.01 min

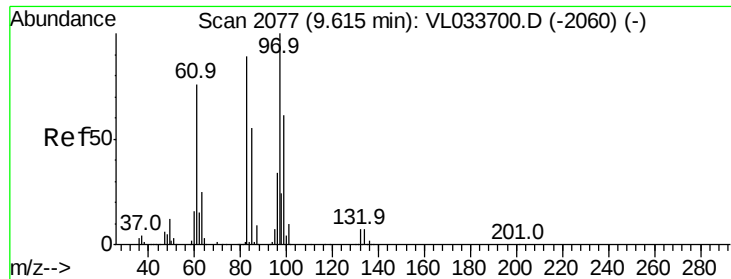
Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion: 75 Resp: 49000

Ion	Ratio	Lower	Upper
75	100		
39	58.8	54.4	81.6
77	24.7	26.6	39.8#





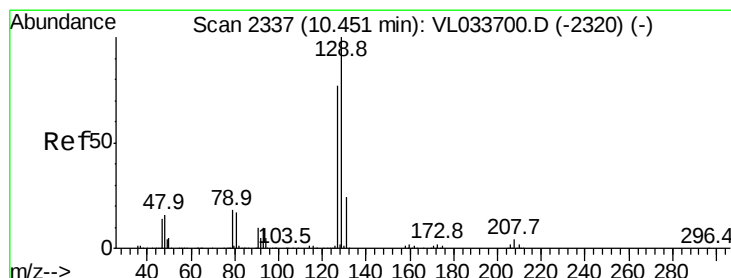
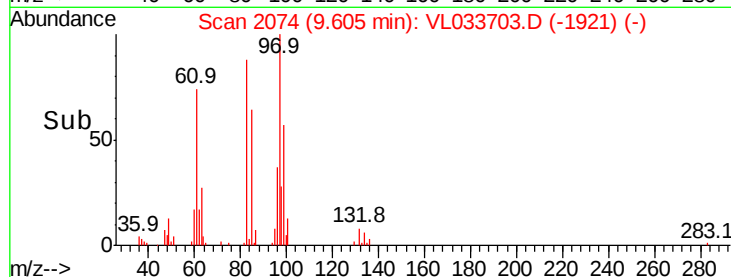
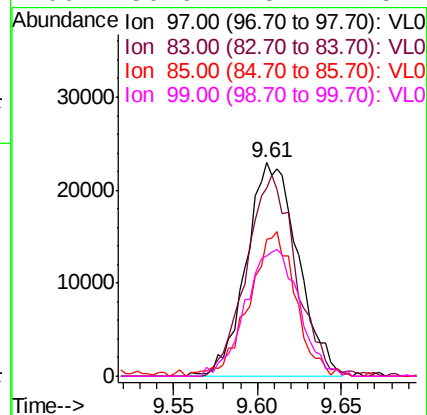
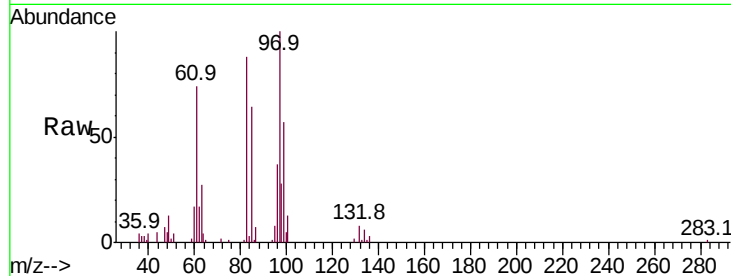
#47
 1,1,2-Trichloroethane
 Concen: 0.481 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	97	Resp	49038
Ion	Ratio	Lower	Upper
97	100		
83	88.0	70.8	106.2
85	64.0	43.7	65.5
99	56.6	48.7	73.1

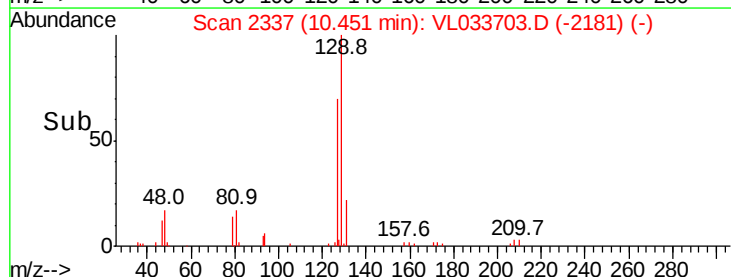
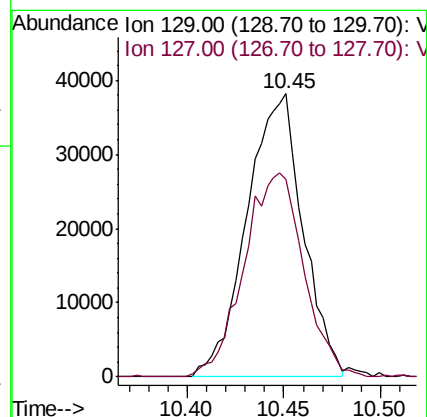
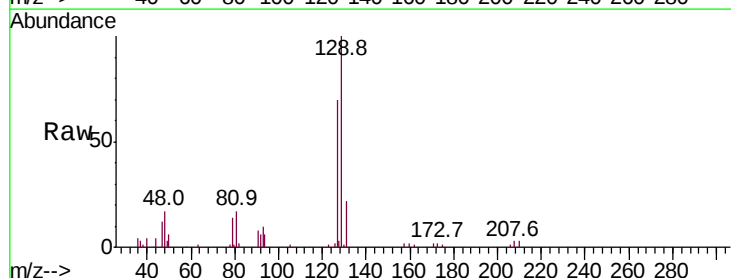
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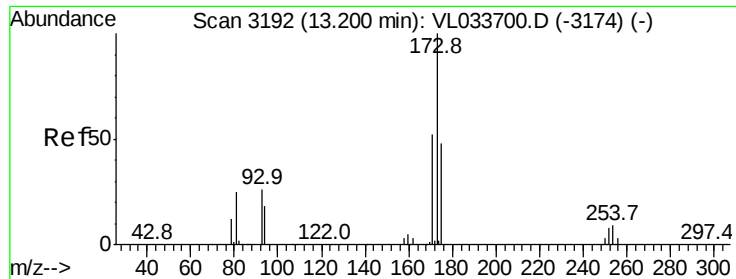
MMDadoda
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#48
 Dibromochloromethane
 Concen: 0.443 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Tgt Ion	129	Resp	76845
Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	116.0





#49

Bromoform

Concen: 0.405 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

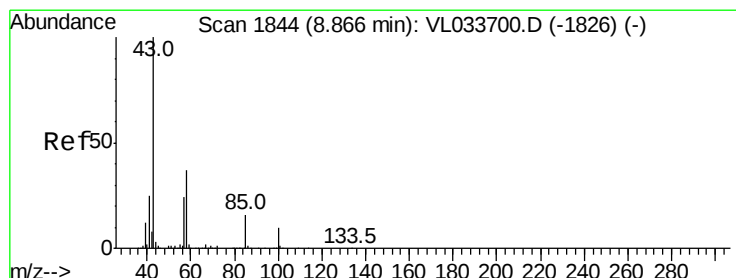
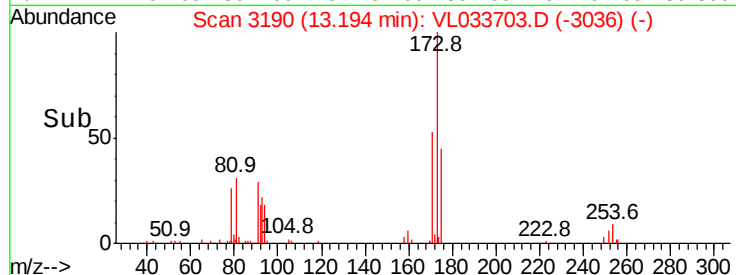
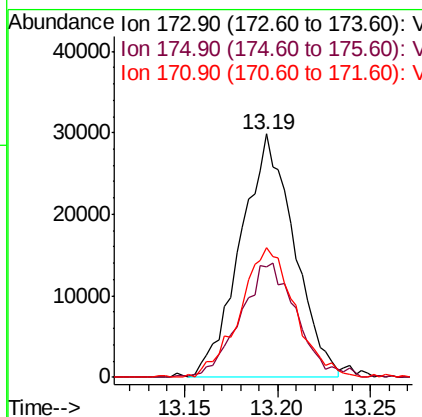
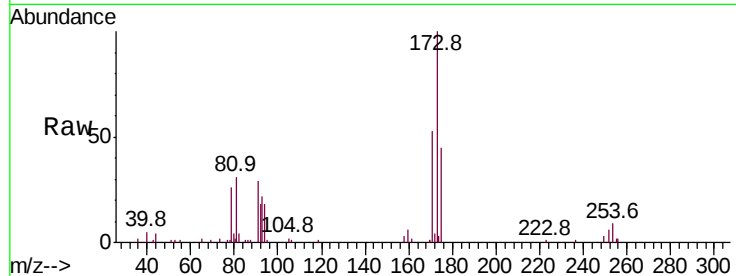
ClientSampleId :

VSTDIC0.5

Tot Ion:	173	Resp:	60059
Ion Ratio	Lower	Upper	
173	100		
175	49.3	38.6	58.0
171	54.5	41.5	62.3

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#50

4-Methyl-2-Pentanone

Concen: 0.416 ppbv m

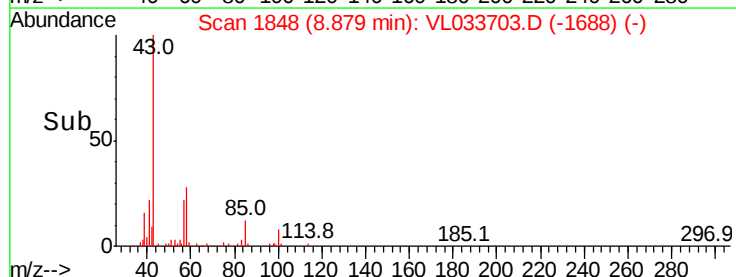
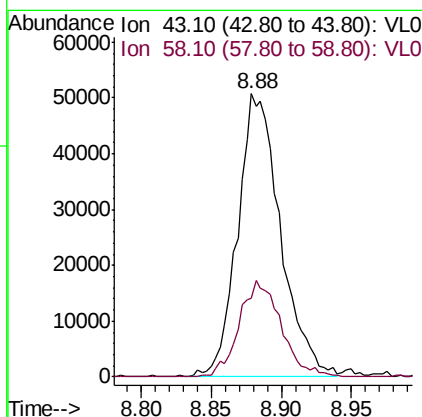
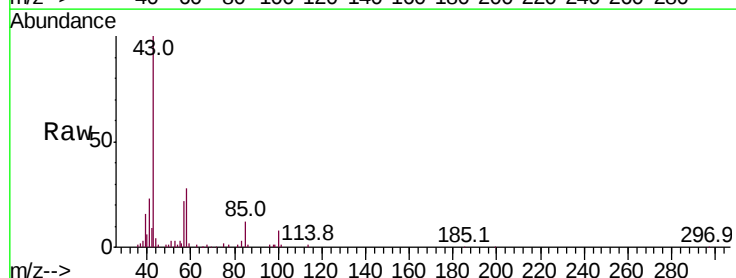
RT: 8.88 min Scan# 1848

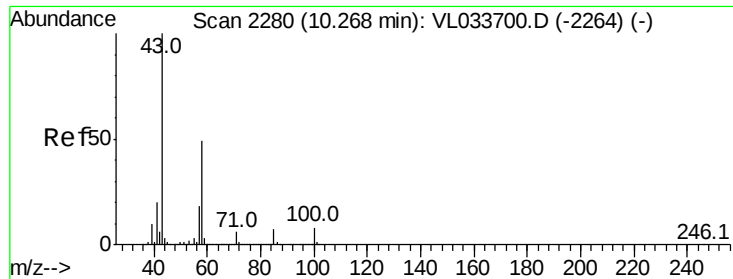
Delta R.T. 0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	43	Resp:	106874
Ion Ratio	Lower	Upper	
43	100		
58	33.3	28.6	43.0





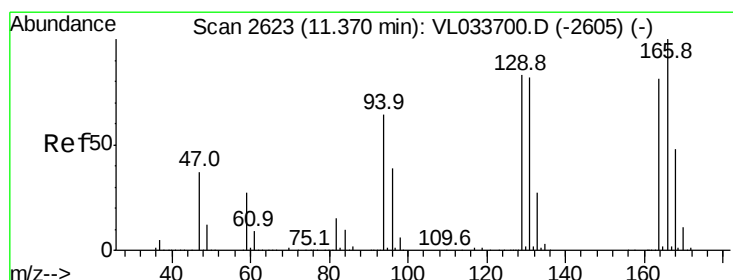
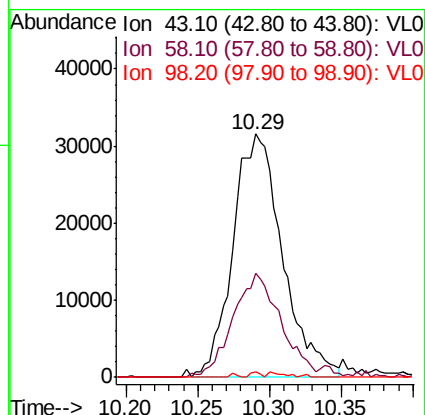
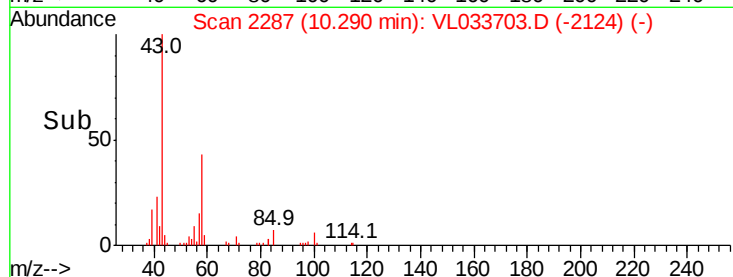
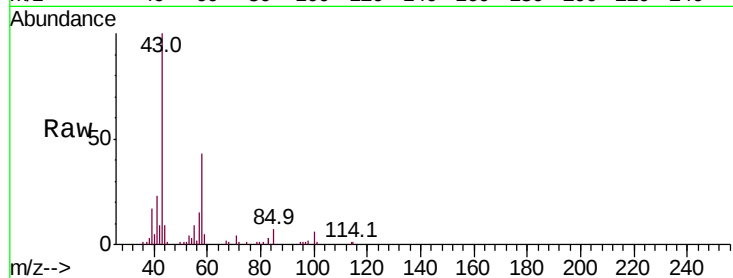
#51
2-Hexanone
Concen: 0.379 ppbv m
RT: 10.29 min Scan# 2287
Delta R.T. 0.02 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.5	38.7	58.1
98	1.4	0.2	0.4

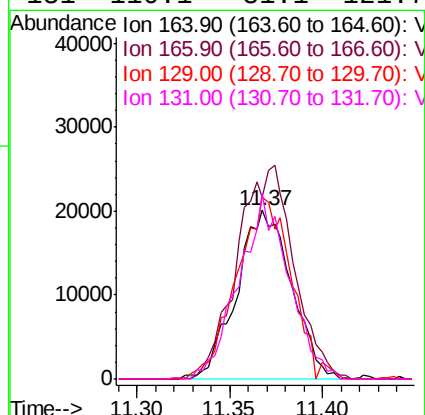
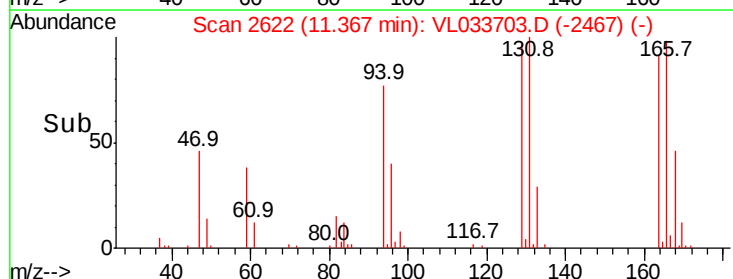
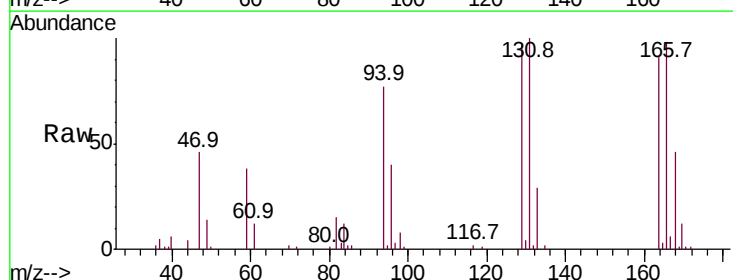
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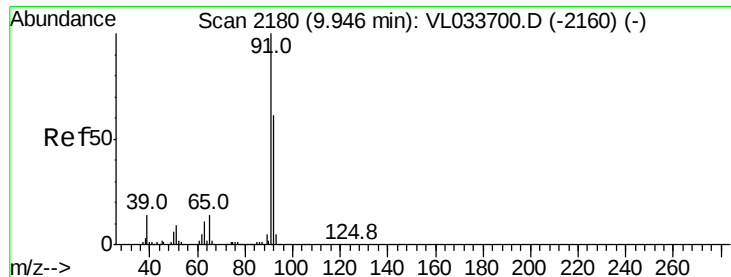
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#52
Tetrachloroethene
Concen: 0.486 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	107.6	98.9	148.3
129	105.4	81.8	122.6
131	110.1	81.1	121.7





#53

Toluene

Concen: 0.383 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 99005

Ion Ratio Lower Upper

91 100

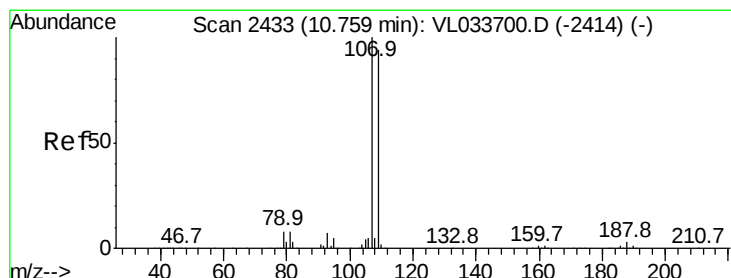
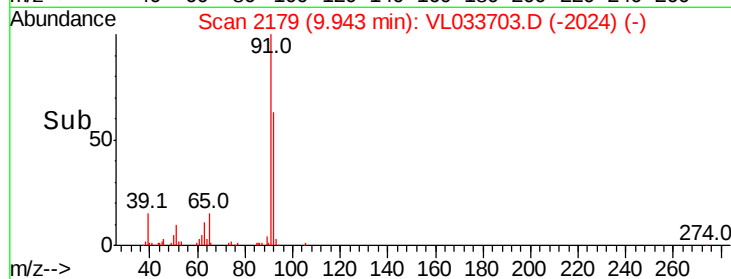
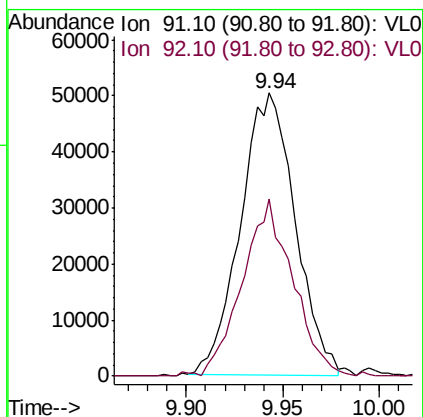
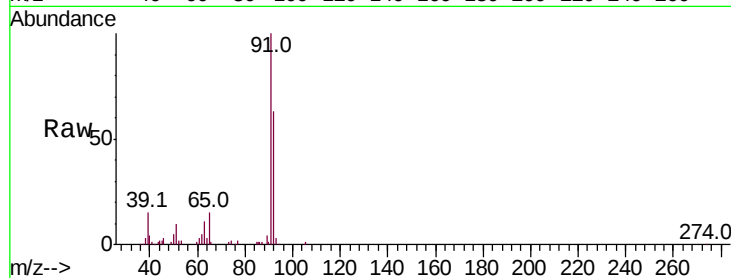
92 58.5 47.6 71.4

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#54

1,2-Dibromoethane

Concen: 0.445 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033703.D

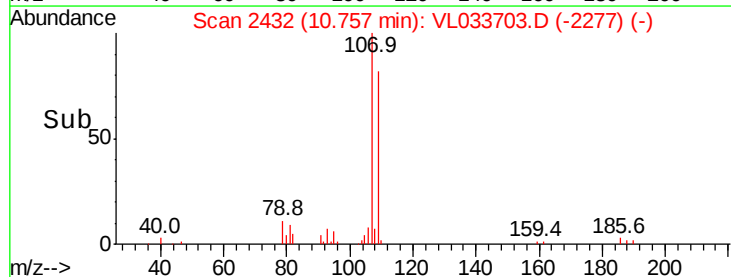
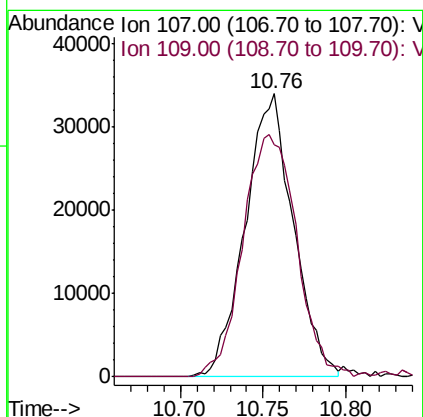
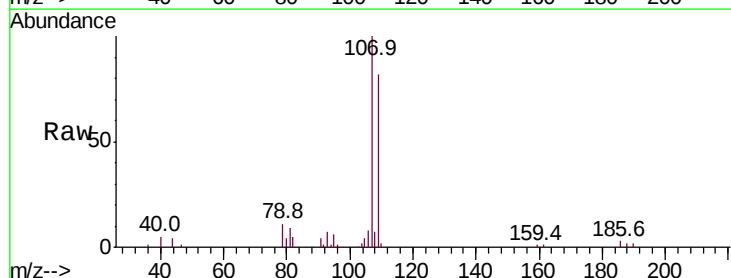
Acq: 17 May 2019 3:56

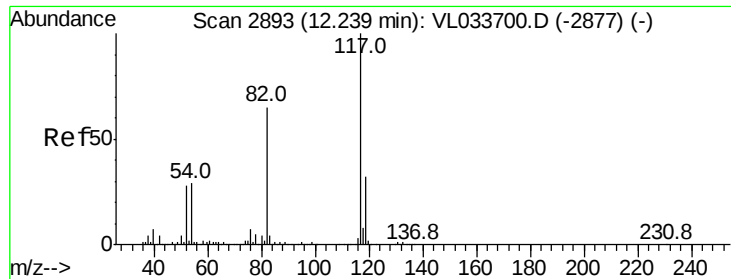
Tgt Ion: 107 Resp: 68575

Ion Ratio Lower Upper

107 100

109 82.0 75.2 112.8





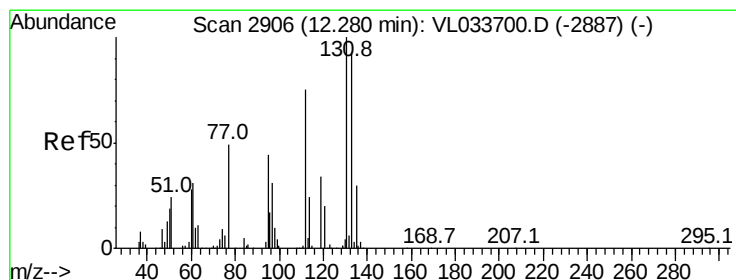
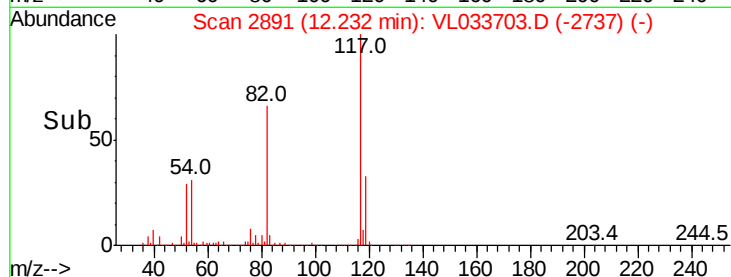
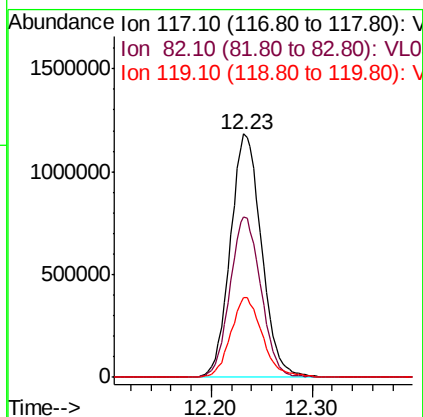
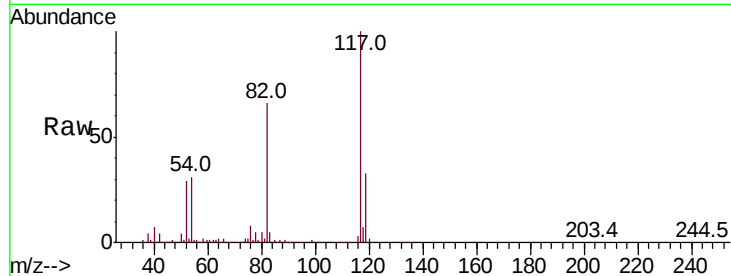
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.7	49.4	74.0
119	33.4	24.9	37.3

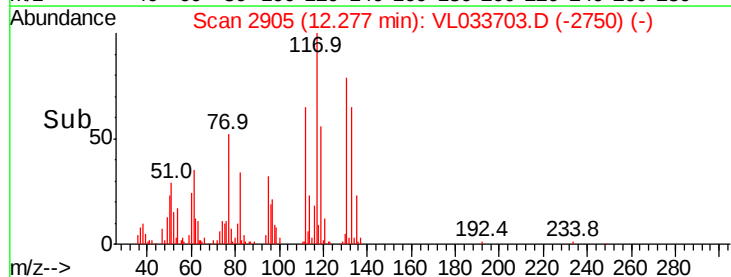
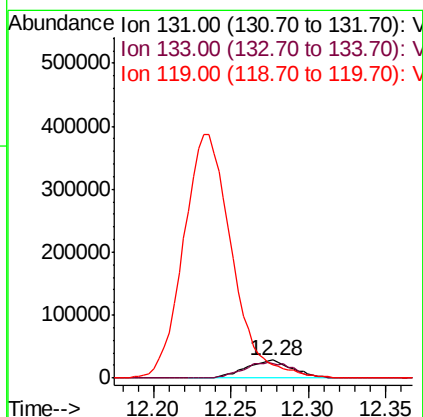
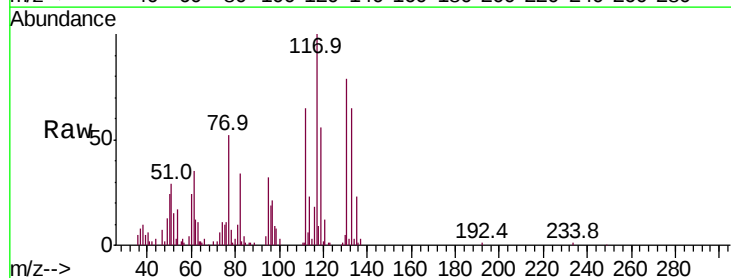
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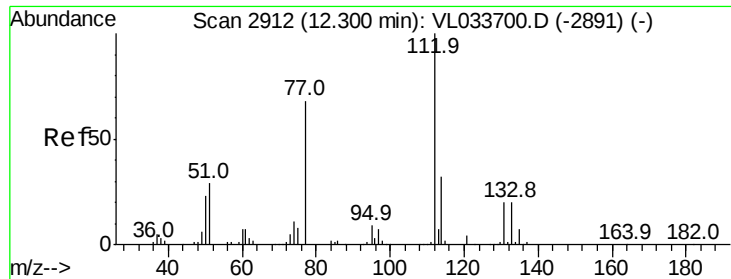
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.514 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.5	76.6	114.8
119	1394.4	49.0	73.4#





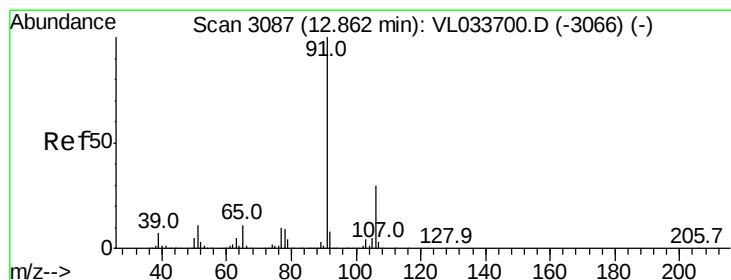
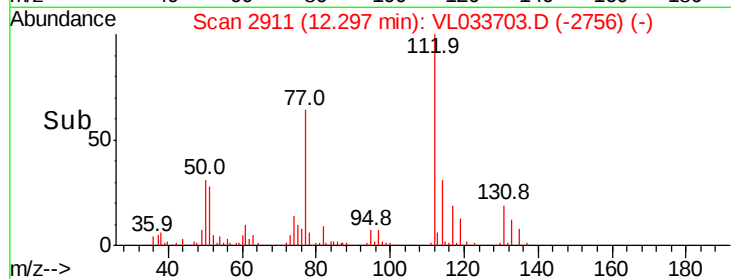
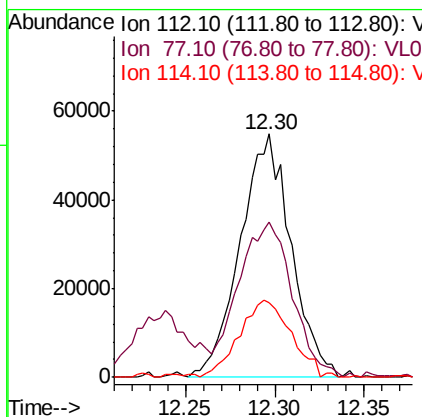
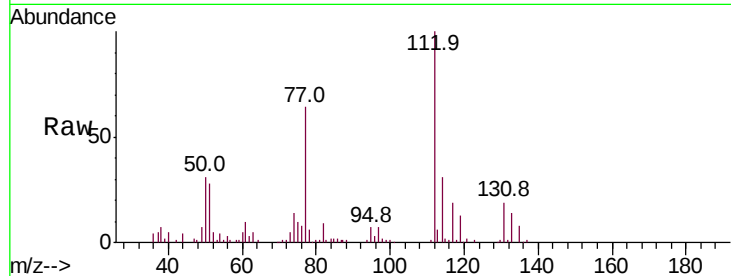
#57
Chlorobenzene
Concen: 0.517 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
112	100	108970		
77	58.5		55.4	83.0
114	28.9		29.3	35.8#

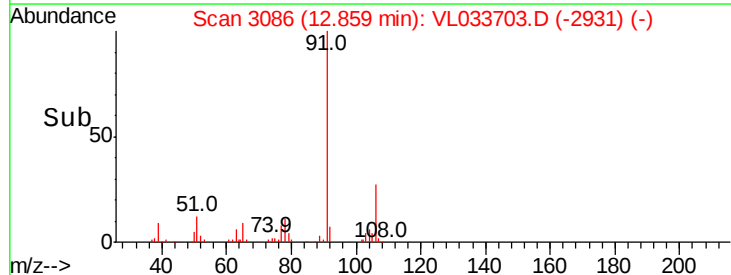
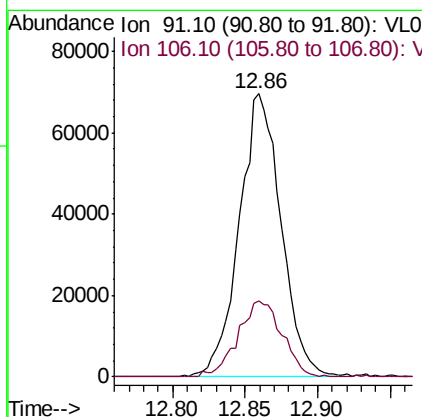
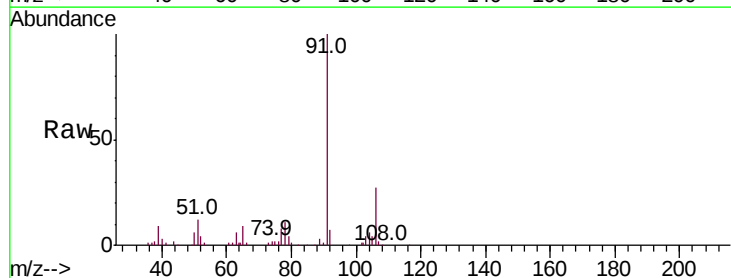
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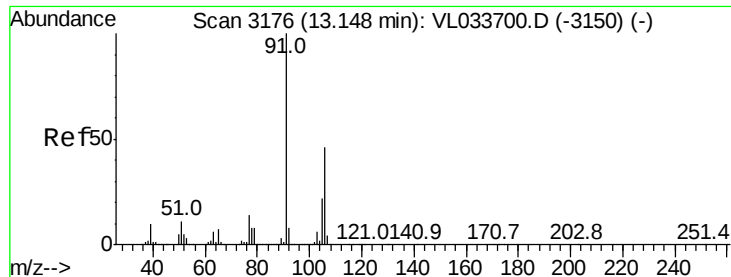
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#58
Ethyl Benzene
Concen: 0.417 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	139518		
106	26.7		23.9	35.9





#59

m/p-Xylene

Concen: 0.898 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 264954

Ion Ratio Lower Upper

91 100

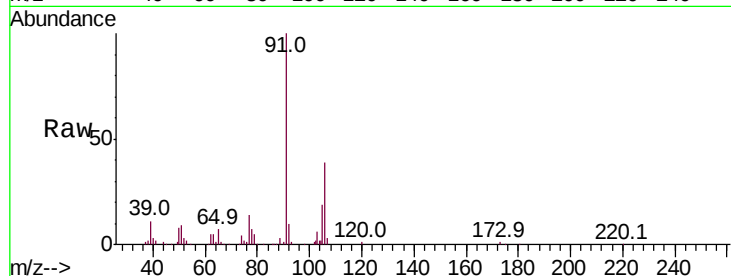
106 43.5 35.8 53.6

Manual Integrations

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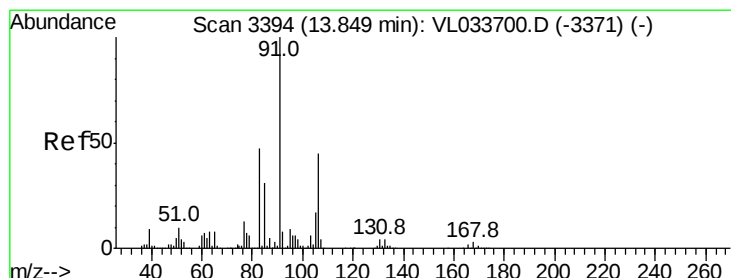
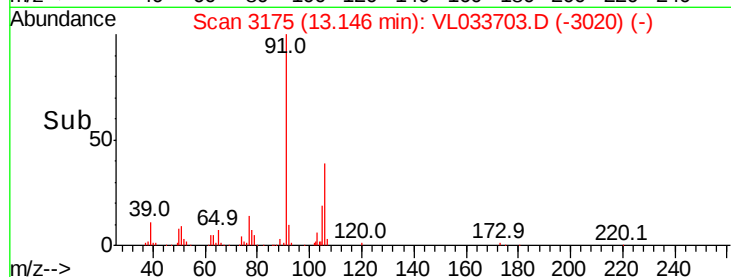
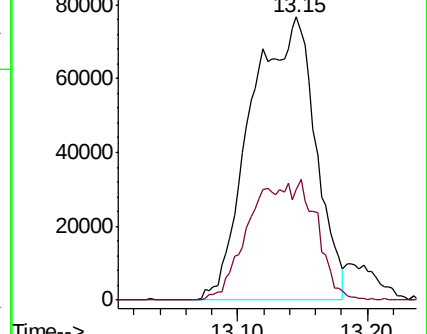
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.454 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL033703.D

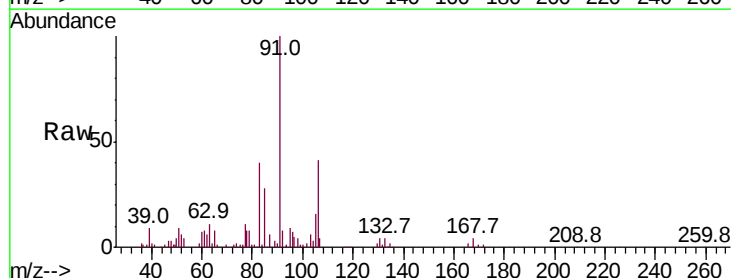
Acq: 17 May 2019 3:56

Tgt Ion: 91 Resp: 135045

Ion Ratio Lower Upper

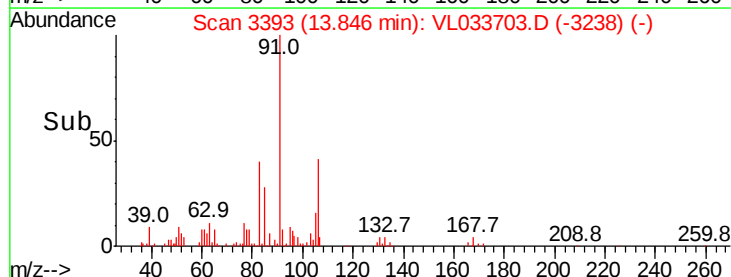
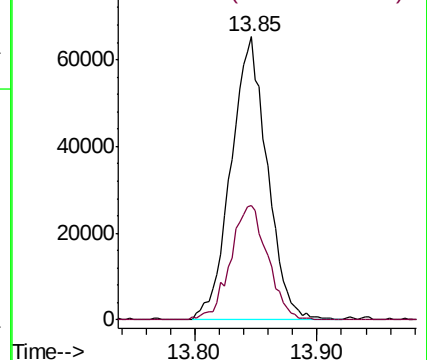
91 100

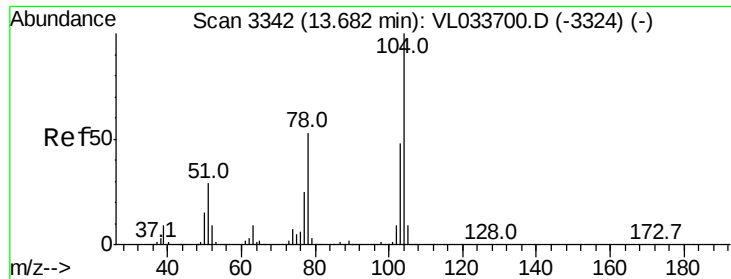
106 41.5 21.6 64.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





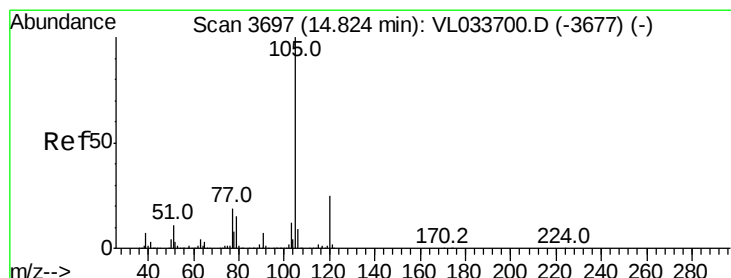
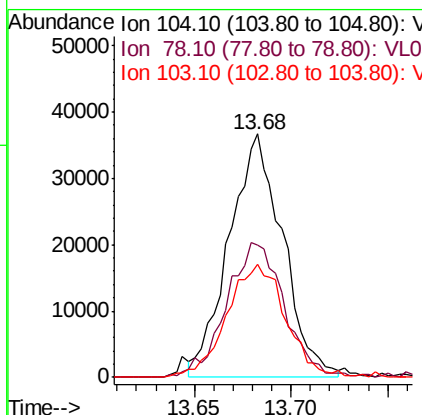
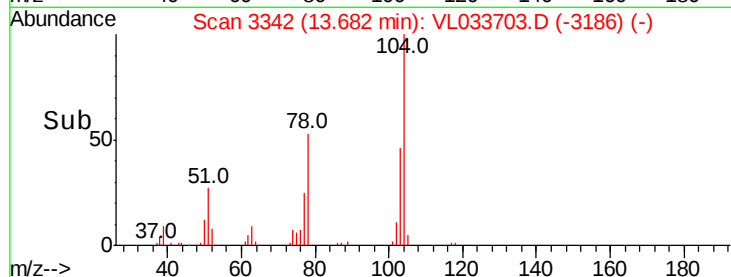
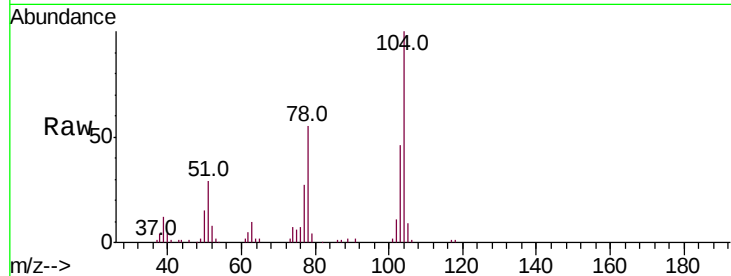
#61
Stvrene
Concen: 0.355 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.0	42.6	64.0
103	51.3	37.8	56.6

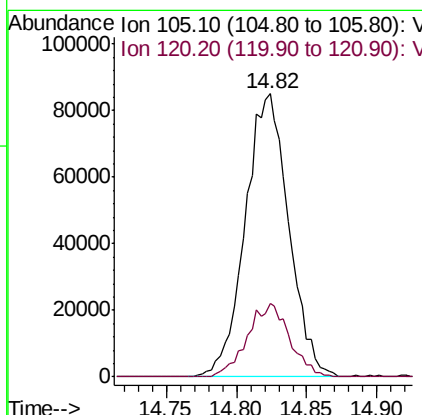
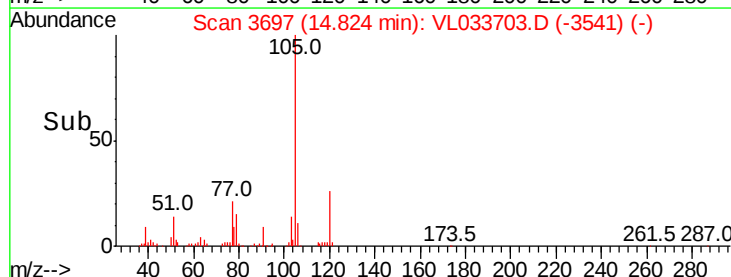
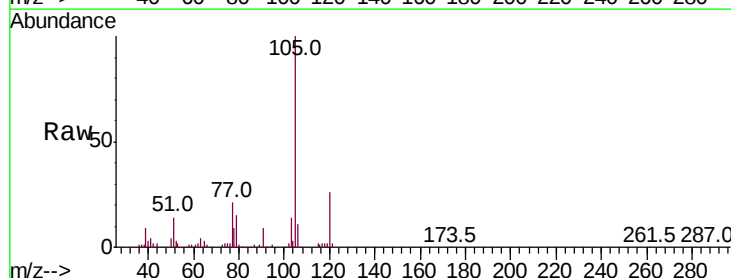
Manual Integrations
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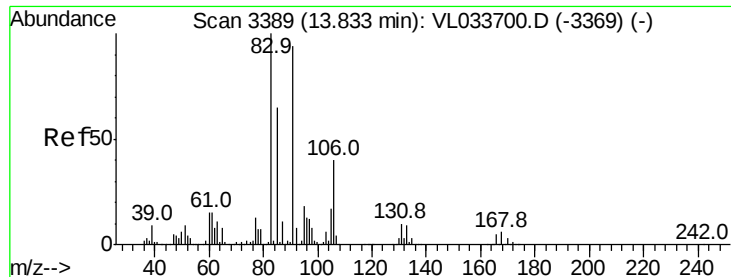
MMDadoda
5/20/2019 12:05:08 PM



#62
Isopropylbenzene
Concen: 0.451 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.1	30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 0.523 ppbv

RT: 13.83 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 113028
Ion Ratio Lower Upper

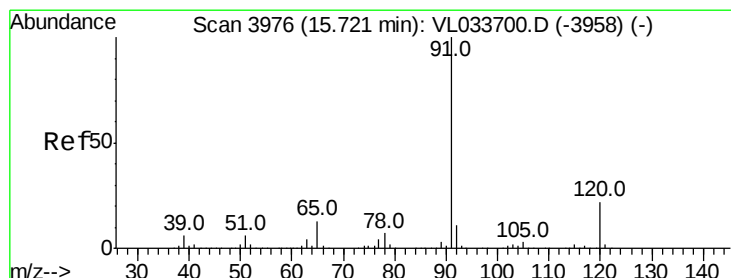
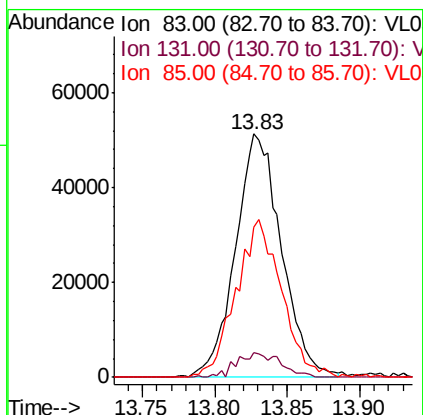
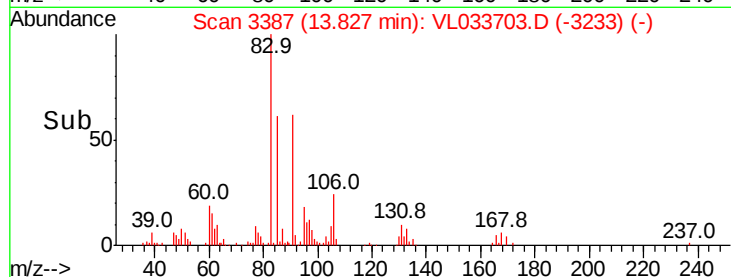
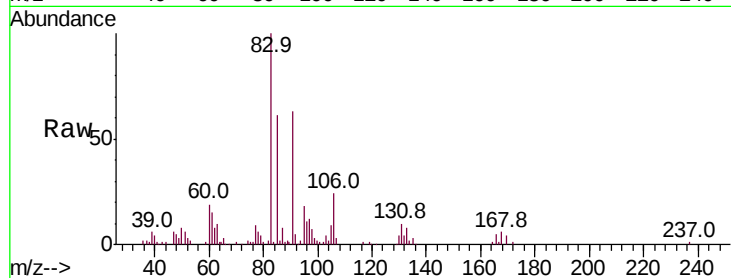
83 100

131 9.8 4.8 14.3

85 64.1 32.3 96.9

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#64

n-propylbenzene

Concen: 0.425 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.00 min

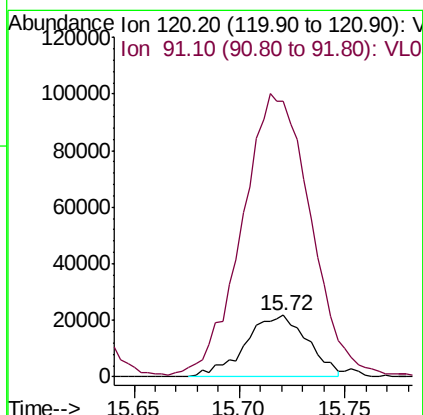
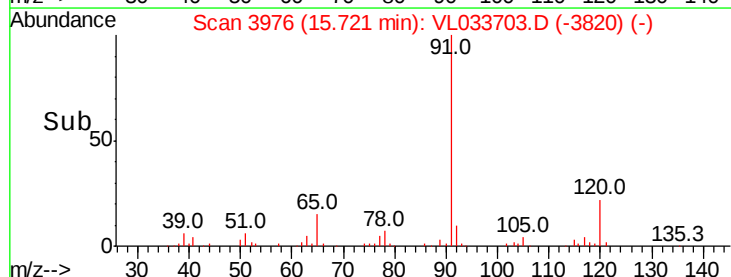
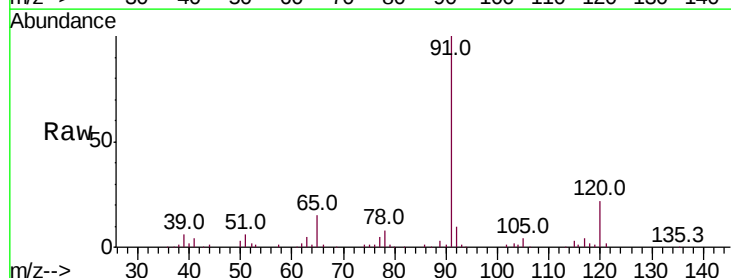
Lab File: VL033703.D

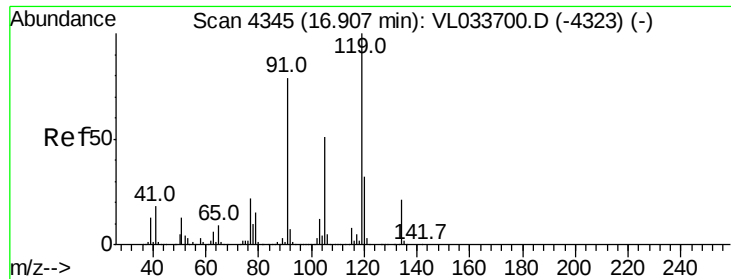
Acq: 17 May 2019 3:56

Tgt Ion: 120 Resp: 44635
Ion Ratio Lower Upper

120 100

91 514.4 379.1 568.7





#65

tert-Butylbenzene

Concen: 0.419 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

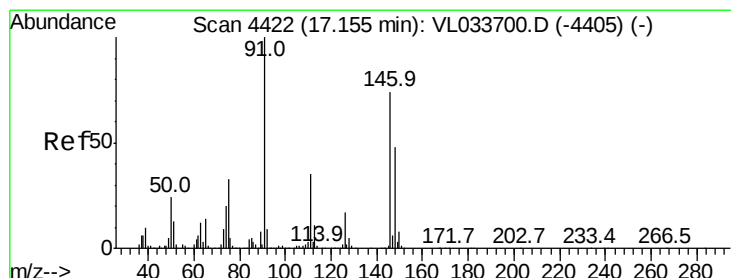
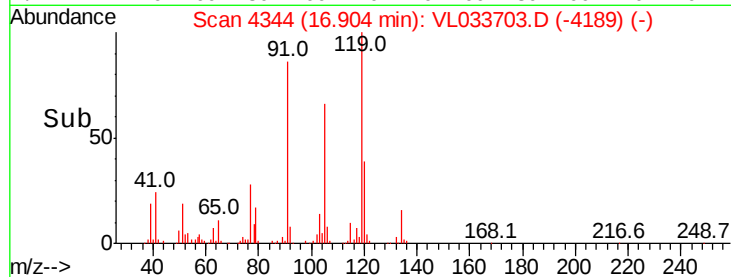
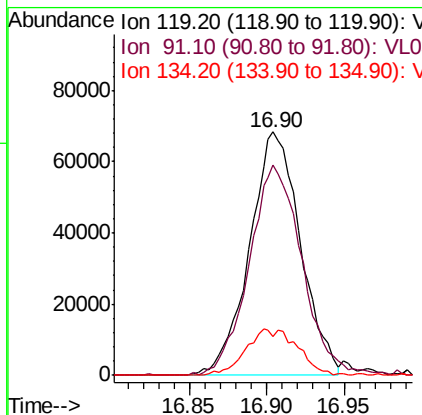
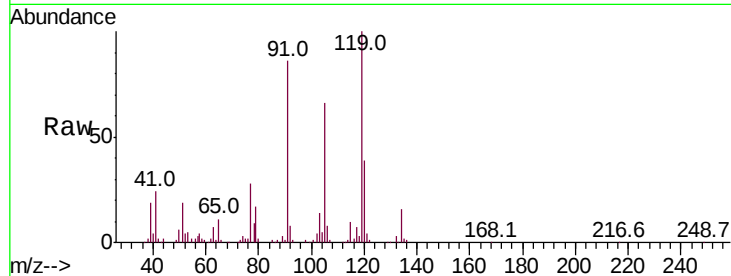
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	156318
Ion Ratio	Lower	Upper	
119	100		
91	90.6	65.3	97.9
134	19.7	15.7	23.5

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.356 ppbv

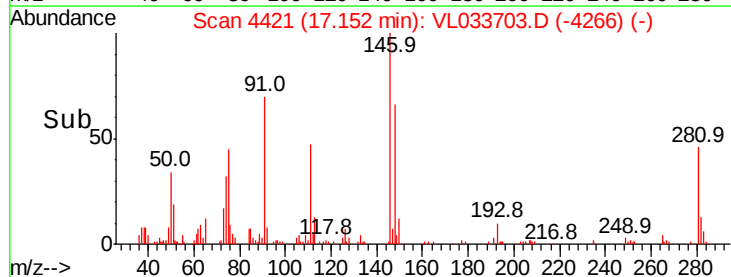
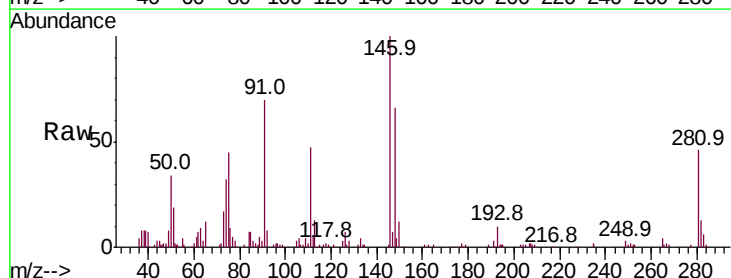
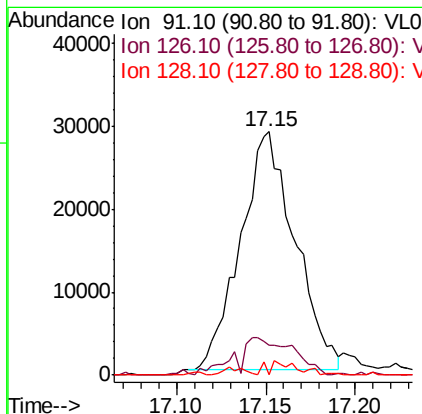
RT: 17.15 min Scan# 4421

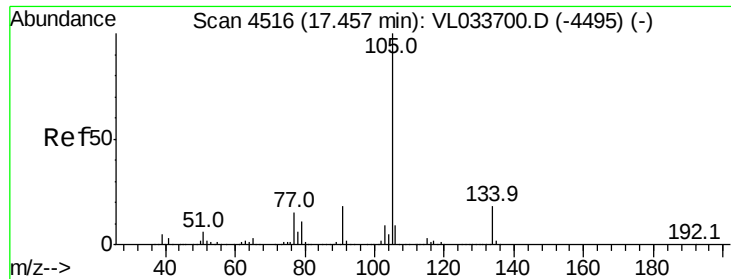
Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	91	Resp:	60788
Ion Ratio	Lower	Upper	
91	100		
126	17.2	13.5	20.3
128	4.8	4.3	6.5





#67

sec-Butylbenzene

Concen: 0.435 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 226379

Ion Ratio Lower Upper

105 100

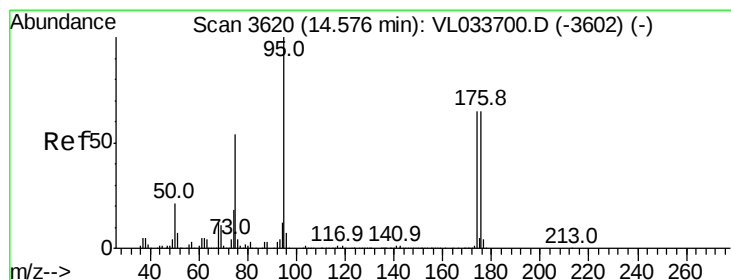
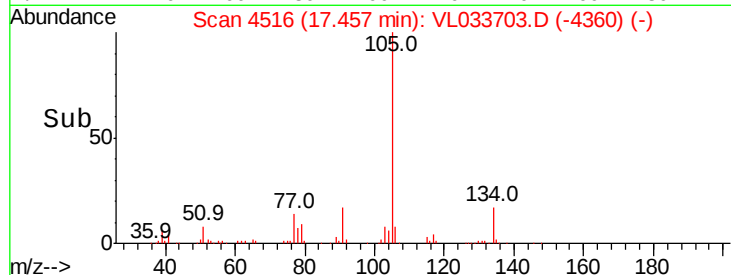
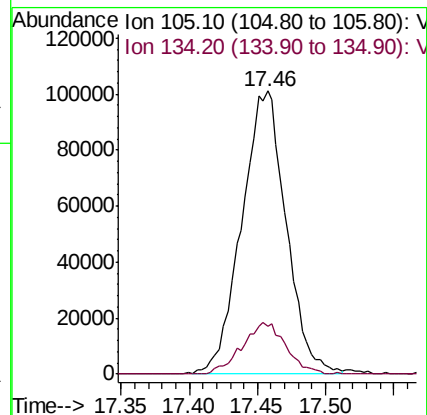
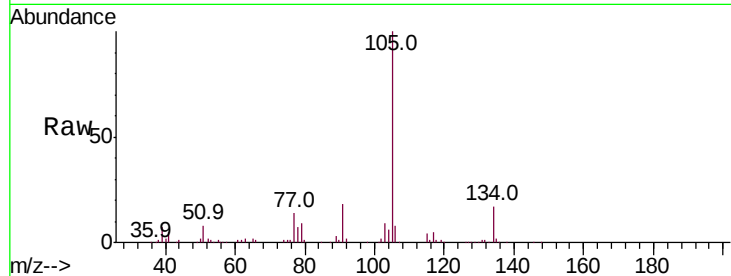
134 18.0 14.6 22.0

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.124 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

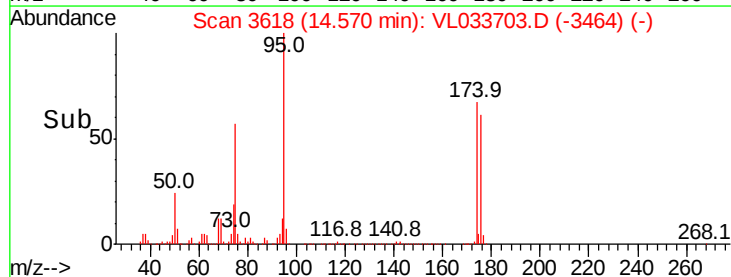
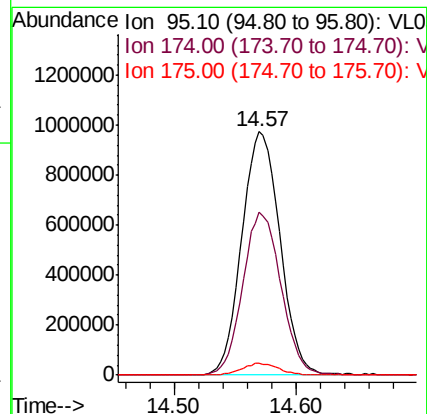
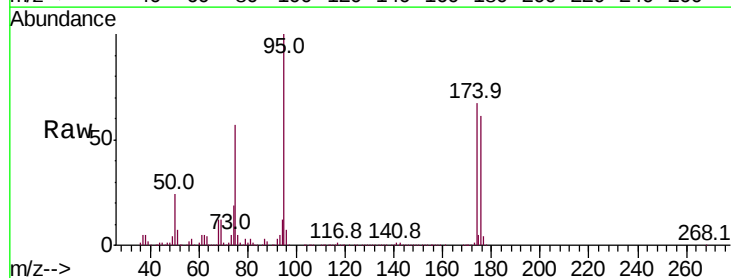
Tgt Ion: 95 Resp: 2109749

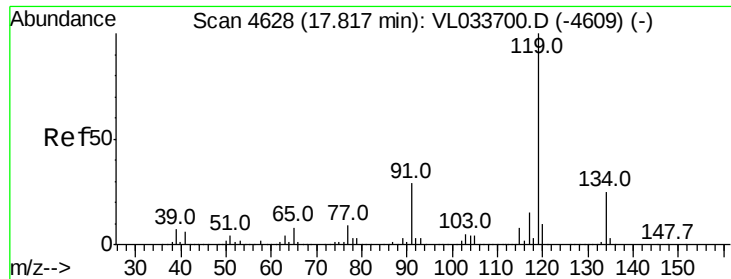
Ion Ratio Lower Upper

95 100

174 66.8 53.9 80.9

175 4.7 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.409 ppbv

RT: 17.81 min Scan# 4626

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

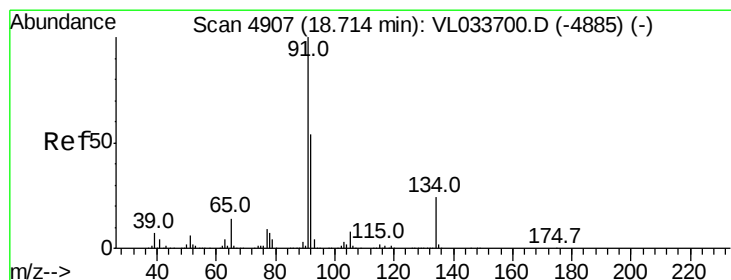
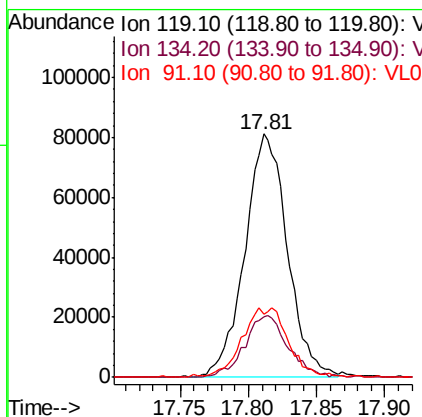
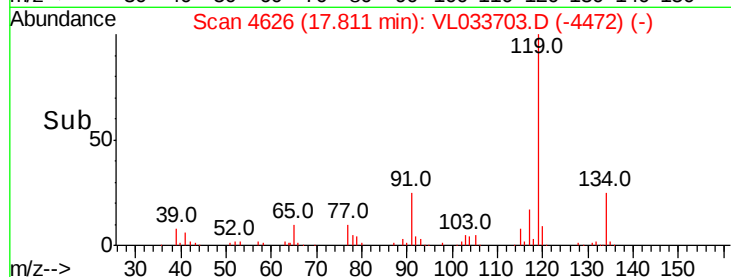
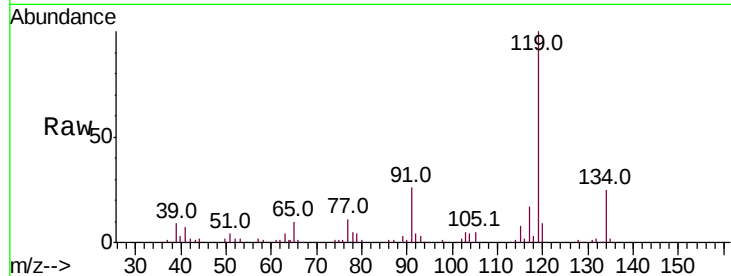
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	175586
Ion Ratio	Lower	Upper	
119	100		
134	26.0	20.3	30.5
91	31.3	23.1	34.7

Manual Integrations
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#70

n-Butylbenzene

Concen: 0.438 ppbv

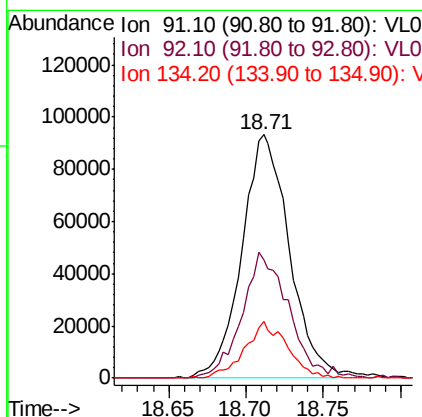
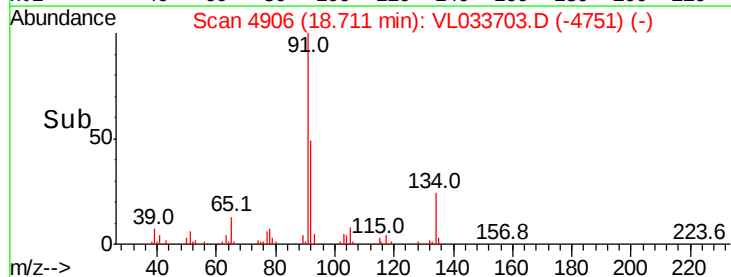
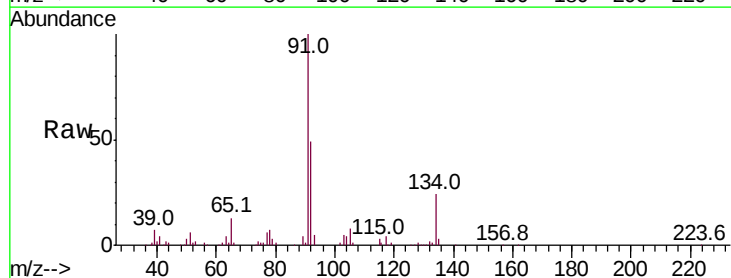
RT: 18.71 min Scan# 4906

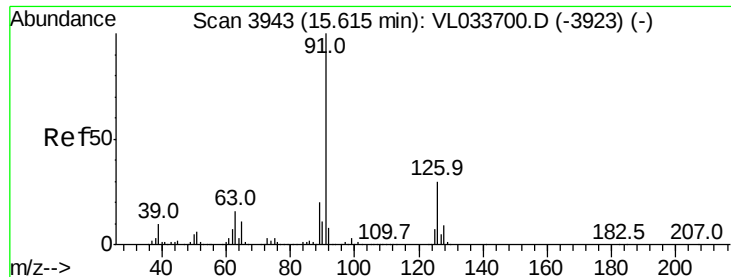
Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	91	Resp:	198689
Ion Ratio	Lower	Upper	
91	100		
92	51.4	42.6	63.8
134	20.9	18.1	27.1





#71

2-Chlorotoluene

Concen: 0.414 ppbv

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 124525

Ion Ratio Lower Upper

91 100

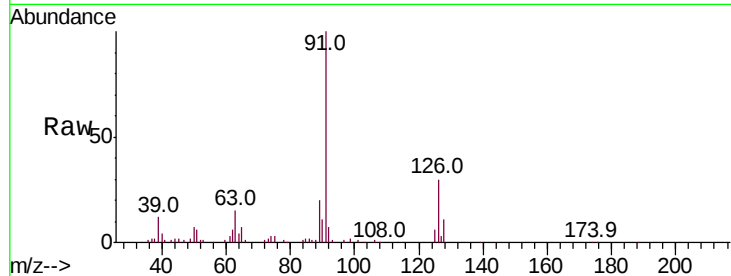
126 29.0 12.0 47.8

Manual Integrations

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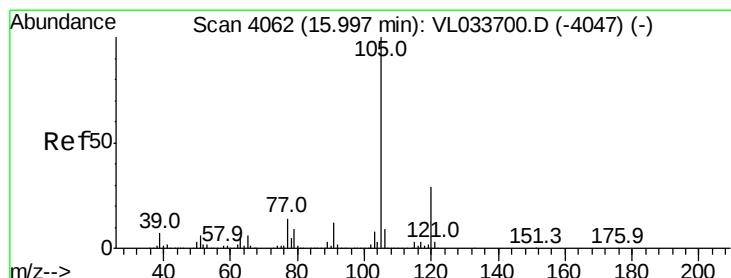
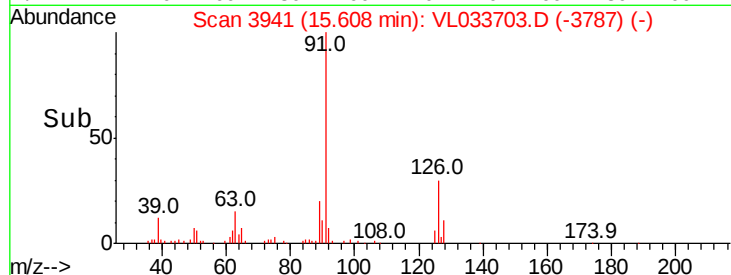
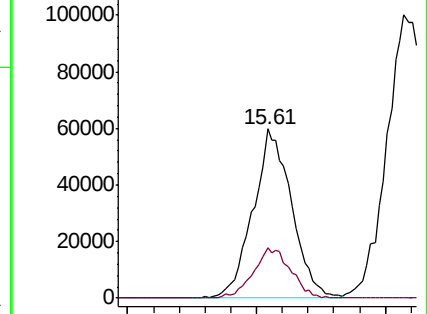
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.402 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:105 Resp: 140527

Ion Ratio Lower Upper

105 100

120 27.5 23.1 34.7

91 15.4 10.4 15.6

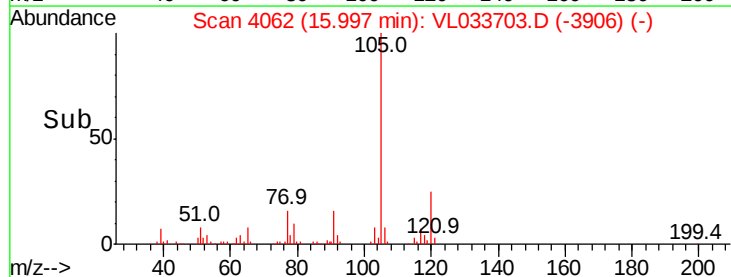
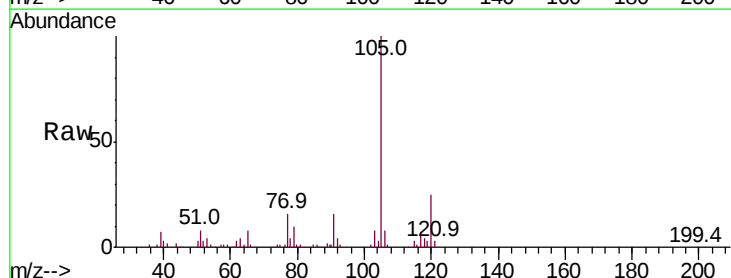
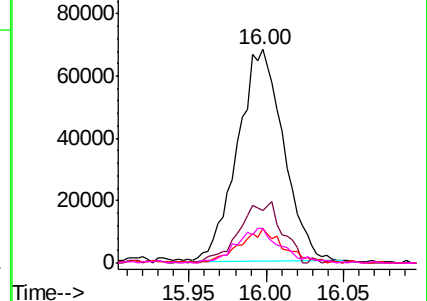
77 15.9 11.0 16.6

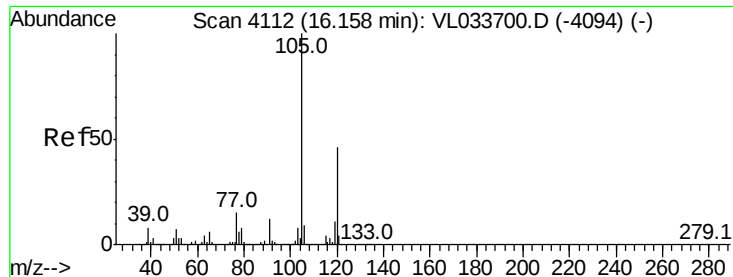
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.423 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 142863

Ion Ratio Lower Upper

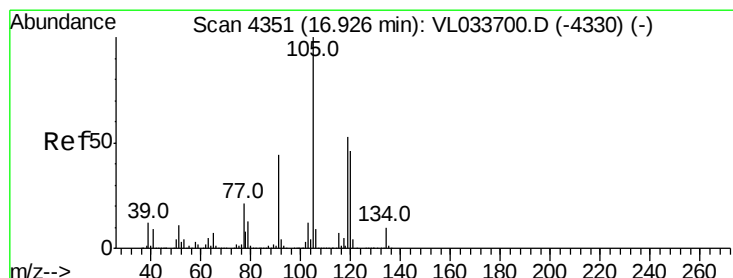
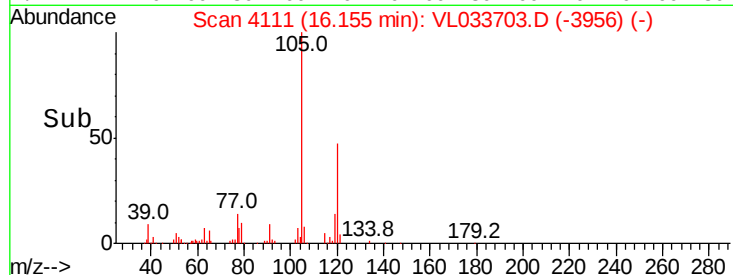
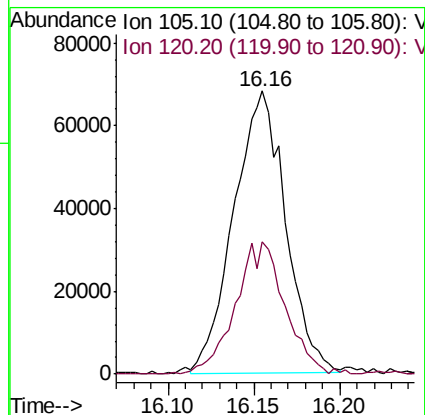
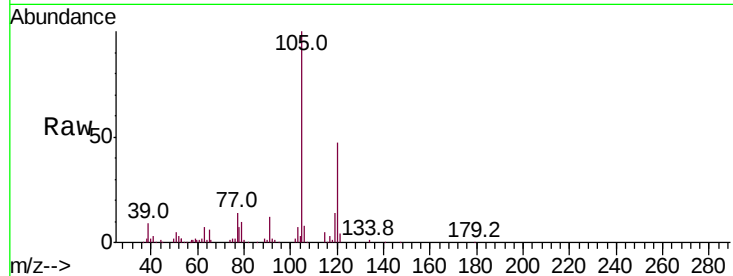
105 100

120 46.8 37.0 55.4

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#74

1,2,4-Trimethylbenzene

Concen: 0.443 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:105 Resp: 166641

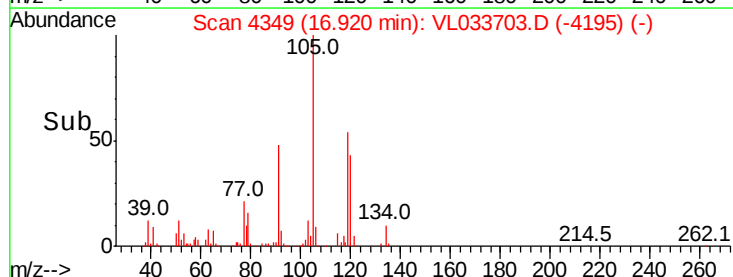
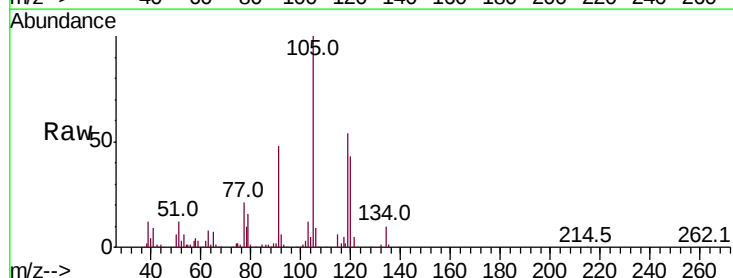
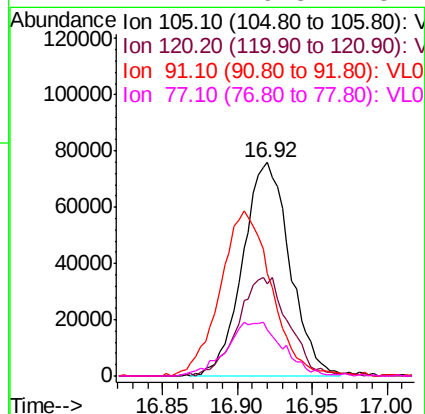
Ion Ratio Lower Upper

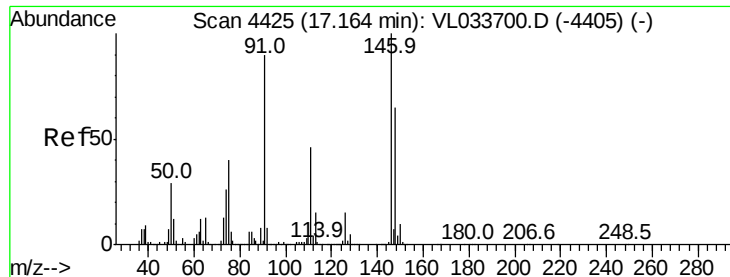
105 100

120 41.9 36.8 55.2

91 46.6 35.4 53.0

77 21.1 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 0.490 ppbv m

RT: 17.15 min Scan# 4422

Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

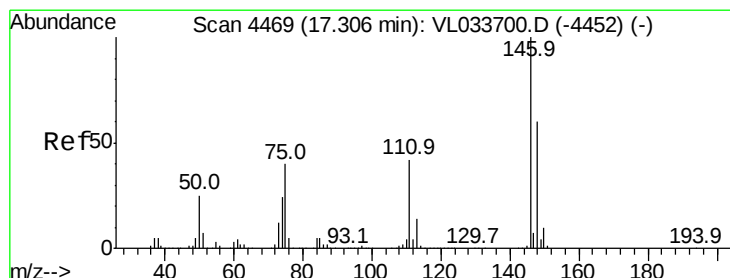
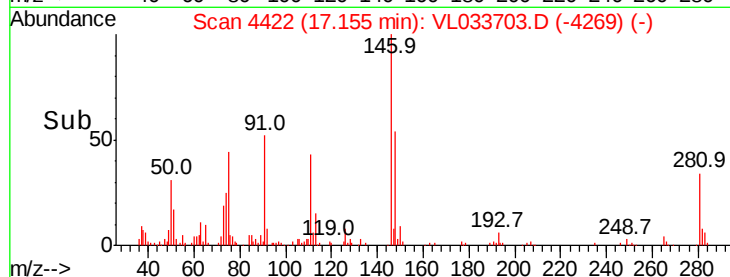
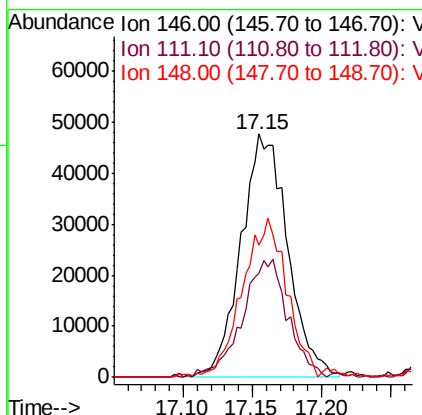
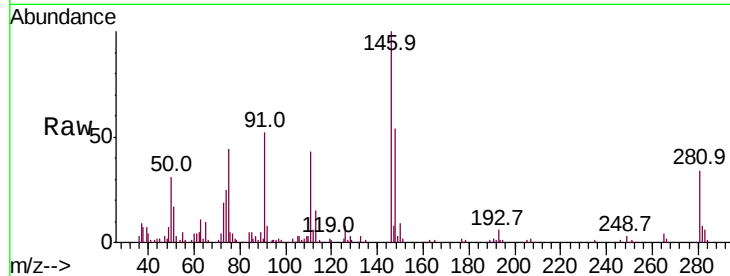
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	111048
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.9	68.8#
148	0.0	32.0	96.2#

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.466 ppbv

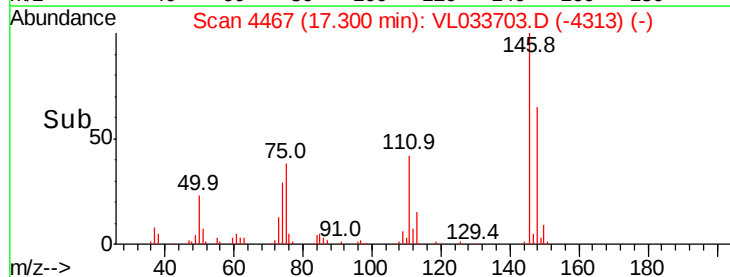
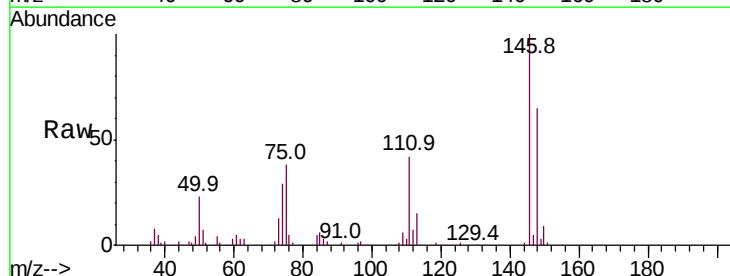
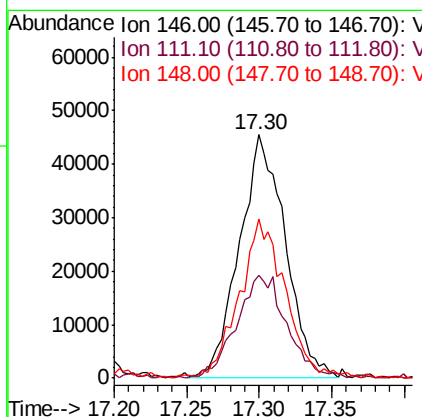
RT: 17.30 min Scan# 4467

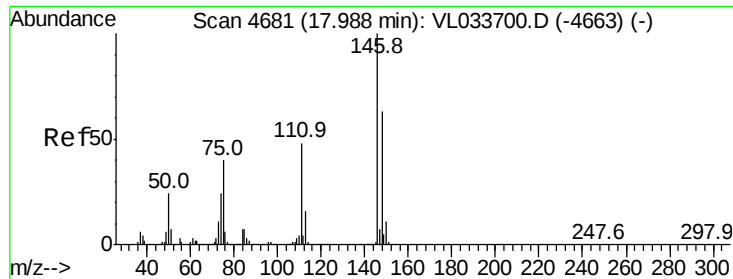
Delta R.T. -0.01 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	146	Resp:	100224
Ion Ratio	Lower	Upper	
146	100		
111	46.4	21.9	65.8
148	66.1	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 0.484 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Instrument :

MSVOA_L

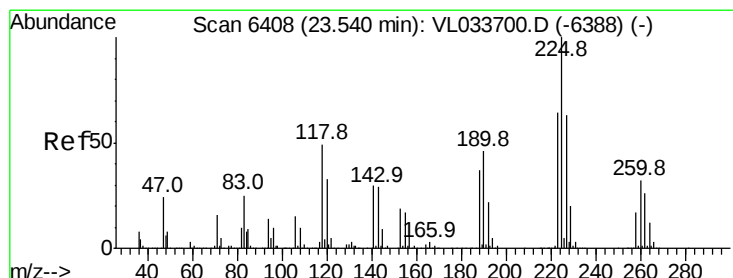
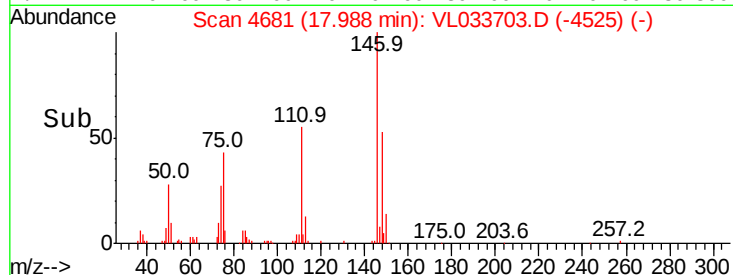
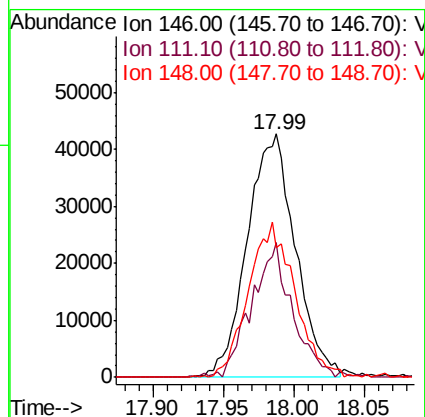
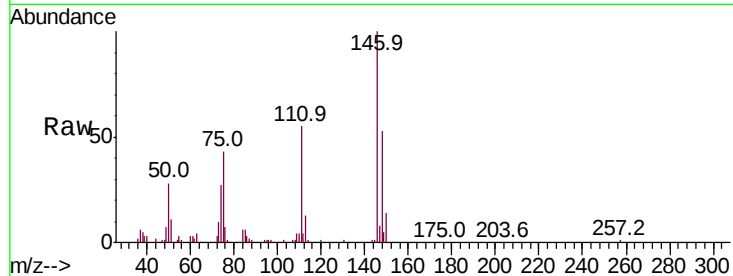
ClientSampled :

VSTDIC0.5

Tot Ion:	146	Resp:	101744
Ion Ratio	Lower	Upper	
146	100		
111	47.5	23.5	70.5
148	61.9	32.1	96.3

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#78

Hexachloro-1,3-Butadiene

Concen: 0.527 ppbv

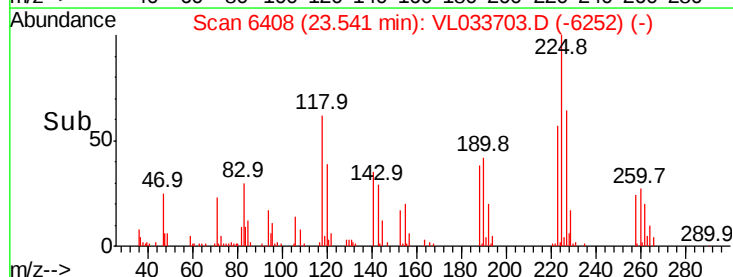
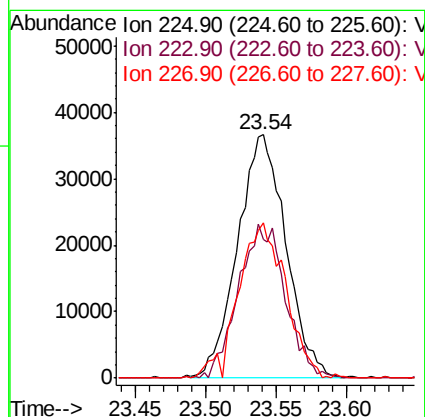
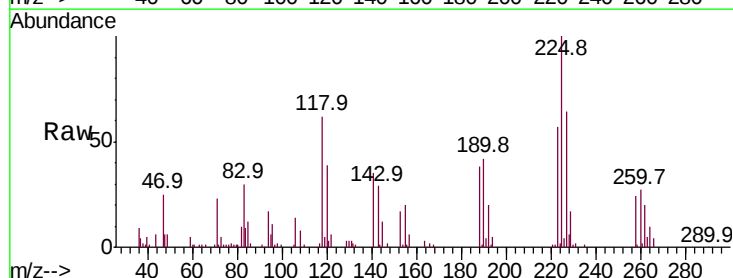
RT: 23.54 min Scan# 6408

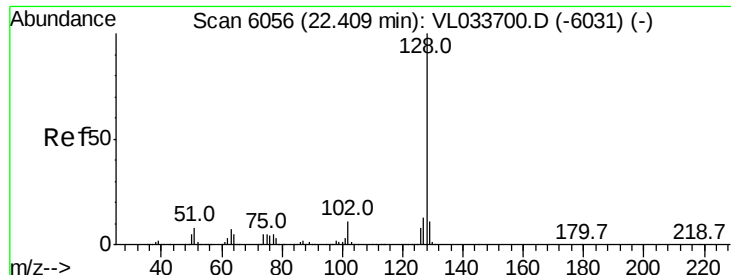
Delta R.T. 0.00 min

Lab File: VL033703.D

Acq: 17 May 2019 3:56

Tgt Ion:	225	Resp:	87793
Ion Ratio	Lower	Upper	
225	100		
223	61.2	50.2	75.4
227	62.8	50.7	76.1





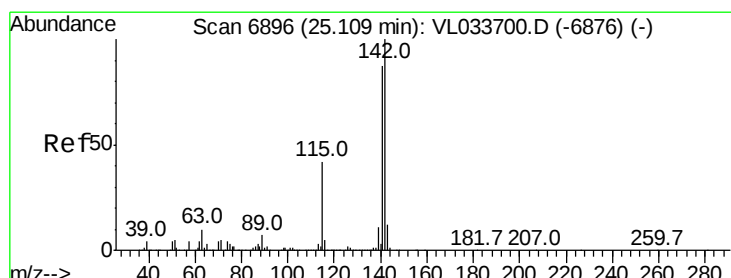
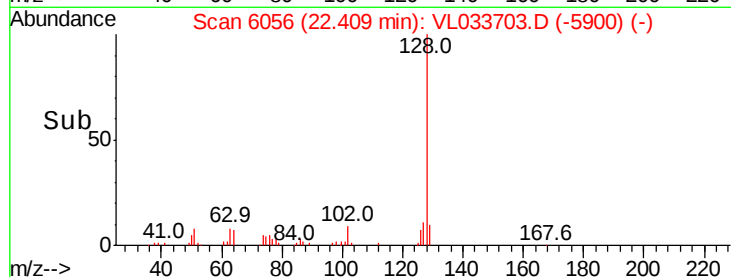
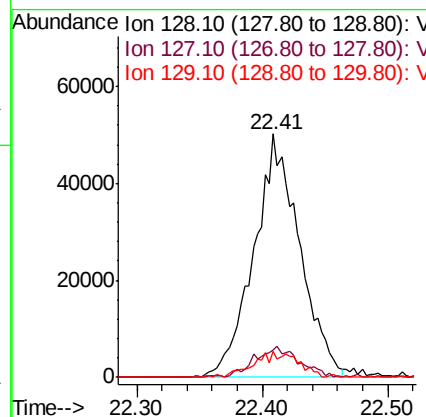
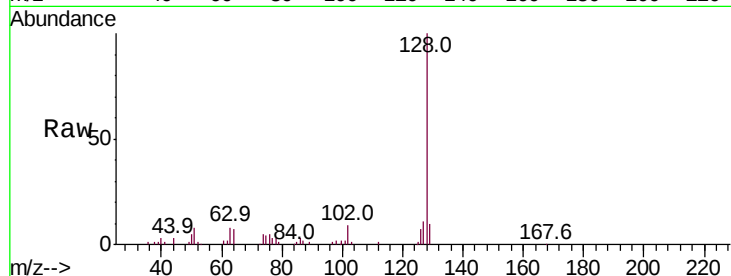
#79
Naphthalene
Concen: 0.369 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. 0.00 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
128	100	126908		
127	11.1		10.6	16.0
129	10.5		8.9	13.3

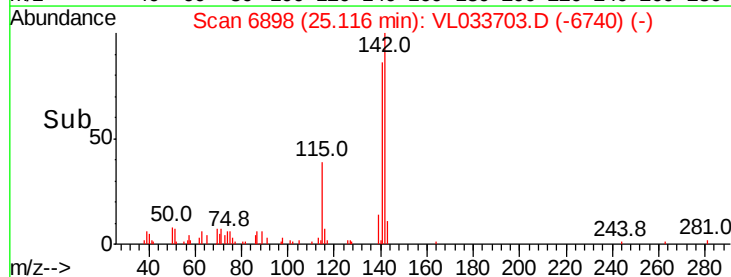
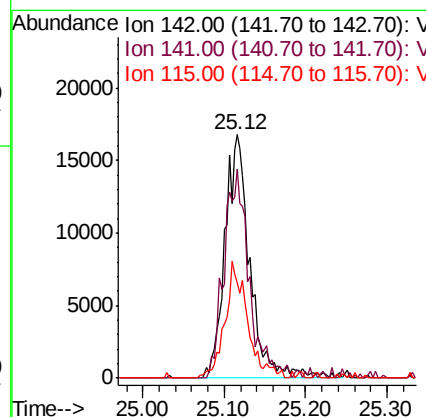
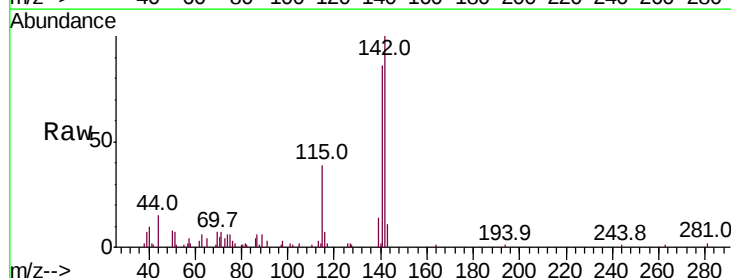
Manual Integrations
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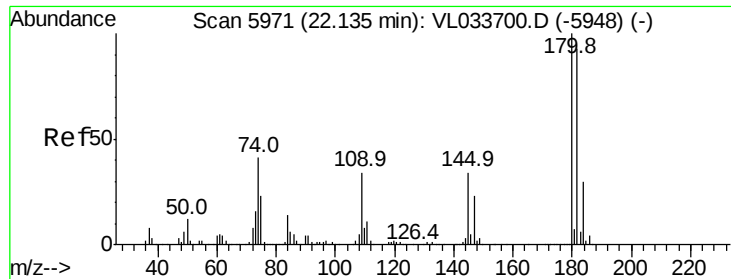
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#80
Naphthalene, 2-methyl-
Concen: 0.277 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.01 min
Lab File: VL033703.D
Acq: 17 May 2019 3:56

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	36367		
141	86.2		67.2	100.8
115	43.2		34.1	51.1





#81
 1,2,4-Trichlorobenzene
 Concen: 0.436 ppbv m
 RT: 22.13 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL033703.D
 Acq: 17 May 2019 3:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.1	114.1
184	31.0	24.6	37.0

Manual Integrations
 APPROVED

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