

Data File : VL032656.D
Acq On : 18 Oct 2018 18:02
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Oct 18 19:17:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 18 11:41:40 2018
QLast Update : Thu Oct 18 11:41:40 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1711194	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4097222	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3926748	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2957475	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	124367	0.737	ppbv	97
3) Chlorodifluoromethane	3.03	51	71012	0.496	ppbv	99
4) Chloromethane	3.18	50	39019	0.499	ppbv	92
5) Vinyl Chloride	3.31	62	38508	0.489	ppbv	95
6) Bromomethane	3.53	94	25622	0.515	ppbv	91
7) Chloroethane	3.61	64	14265	0.463	ppbv	89
8) Dichlorotetrafluoroethane	3.23	85	99555	0.516	ppbv	92
9) Propene	3.05	41	27096	0.516	ppbv	94
10) Heptane	8.26	43	48362	0.246	ppbv #	26
11) Trichlorofluoromethane	4.02	101	127990	0.582	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	94890	0.590	ppbv	96
13) Ethanol	3.67	45	3340	0.206	ppbv #	46
14) Bromoethene	3.80	108	33652	0.571	ppbv	97
15) Acetone	3.93	43	90477	0.594	ppbv	98
16) 1,3-Butadiene	3.38	39	29178	0.517	ppbv	83
17) tert-Butyl alcohol	4.35	59	646	0.046	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	40913	0.564	ppbv	98
19) Isopropyl Alcohol	4.06	45	58451	0.544	ppbv #	93
20) Methylene Chloride	4.42	84	41873	0.614	ppbv	90
21) Allyl Chloride	4.49	41	59024	0.516	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	45559	0.543	ppbv	87
23) Vinyl Acetate	5.17	43	124489	0.514	ppbv #	95
24) 1,1-Dichloroethane	5.10	63	112057	0.499	ppbv	99
25) Ethyl Acetate	5.79	43	191892	0.533	ppbv	99
26) Hexane	5.80	57	88444	0.545	ppbv	95
27) Carbon Disulfide	4.64	76	99349	0.507	ppbv #	88
28) Methyl tert-Butyl Ether	5.14	73	104718	0.513	ppbv	100
29) Chloroform	5.86	83	140880	0.495	ppbv	97
30) Cyclohexane	7.26	84	59733	0.467	ppbv	93
31) cis-1,2-Dichloroethene	5.65	61	68959	0.442	ppbv	92
32) 1,1,1-Trichloroethane	6.63	97	142075	0.501	ppbv	98
34) 2-Butanone	5.36	43	104455	0.459	ppbv	99
35) Carbon Tetrachloride	7.15	117	144207	0.454	ppbv	97
36) Benzene	7.02	78	161716	0.487	ppbv	97
37) 1,2-Dichloroethane	6.43	62	105465	0.463	ppbv	99
38) Trichloroethene	7.98	130	63273	0.507	ppbv	94
39) 1,2-Dichloropropane	7.75	63	33045	0.245	ppbv	87
40) 1,4-Dioxane	8.01	88	5172	0.111	ppbv #	1
41) Tetrahydrofuran	6.19	42	53874	0.447	ppbv	94
42) Bromodichloromethane	7.93	83	149736	0.482	ppbv	94
43) Methyl Methacrylate	8.16	69	51397	0.399	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	270645	0.460	ppbv	93
45) t-1,3-Dichloropropene	9.43	75	58614	0.348	ppbv	93
46) cis-1,3-Dichloropropene	8.85	75	33853	0.177	ppbv #	88
47) 1,1,2-Trichloroethane	9.63	97	78001	0.483	ppbv	91
48) Dibromochloromethane	10.46	129	120504	0.439	ppbv	97
49) Bromoform	13.21	173	49002	0.236	ppbv #	31
50) 4-Methyl-2-Pentanone	8.91	43	151309	0.452	ppbv	96
51) 2-Hexanone	10.32	43	57868	0.220	ppbv #	77
52) Tetrachloroethene	11.39	164	34812	0.318	ppbv	98
53) Toluene	9.96	91	79456	0.210	ppbv #	20
54) 1,2-Dibromoethane	10.78	107	58713	0.254	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.30	131	93535	0.519	ppbv #	1
57) Chlorobenzene	12.32	112	155576	0.521	ppbv	93
58) Ethyl Benzene	12.88	91	97173	0.220	ppbv	91
59) m/p-Xylene	13.17	91	111202	0.282	ppbv #	31
60) o-Xylene	13.86	91	182108	0.464	ppbv	99
61) Styrene	13.70	104	84798	0.357	ppbv	91
62) Isopropylbenzene	14.85	105	272752	0.488	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.86	83	161707	0.467	ppbv	99
64) n-propylbenzene	15.74	120	61824	0.437	ppbv	83
65) tert-Butylbenzene	16.93	119	215938	0.455	ppbv	98
66) Benzyl Chloride	17.17	91	97171	0.363	ppbv #	94
67) sec-Butylbenzene	17.48	105	140612	0.197	ppbv #	52
69) p-Isopropyltoluene	17.83	119	229823	0.425	ppbv	98
70) n-Butylbenzene	18.74	91	234276	0.394	ppbv	97
71) 2-Chlorotoluene	15.64	91	170637	0.413	ppbv	99
72) 4-Ethyltoluene	16.02	105	169436	0.400	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.18	105	181253	0.430	ppbv	95
74) 1,2,4-Trimethylbenzene	16.94	105	205283	0.442	ppbv #	89
75) 1,3-Dichlorobenzene	17.18	146	126813	0.470	ppbv	96
76) 1,4-Dichlorobenzene	17.33	146	106485	0.433	ppbv	97
77) 1,2-Dichlorobenzene	18.00	146	116412	0.449	ppbv	97
78) Hexachloro-1,3-Butadiene	23.56	225	37259	0.257	ppbv #	30
79) Naphthalene	22.44	128	49071	0.155	ppbv	98
80) Naphthalene,2-methyl-	25.14	142	8370	0.136	ppbv	92
81) 1,2,4-Trichlorobenzene	22.16	180	32951	0.210	ppbv #	55

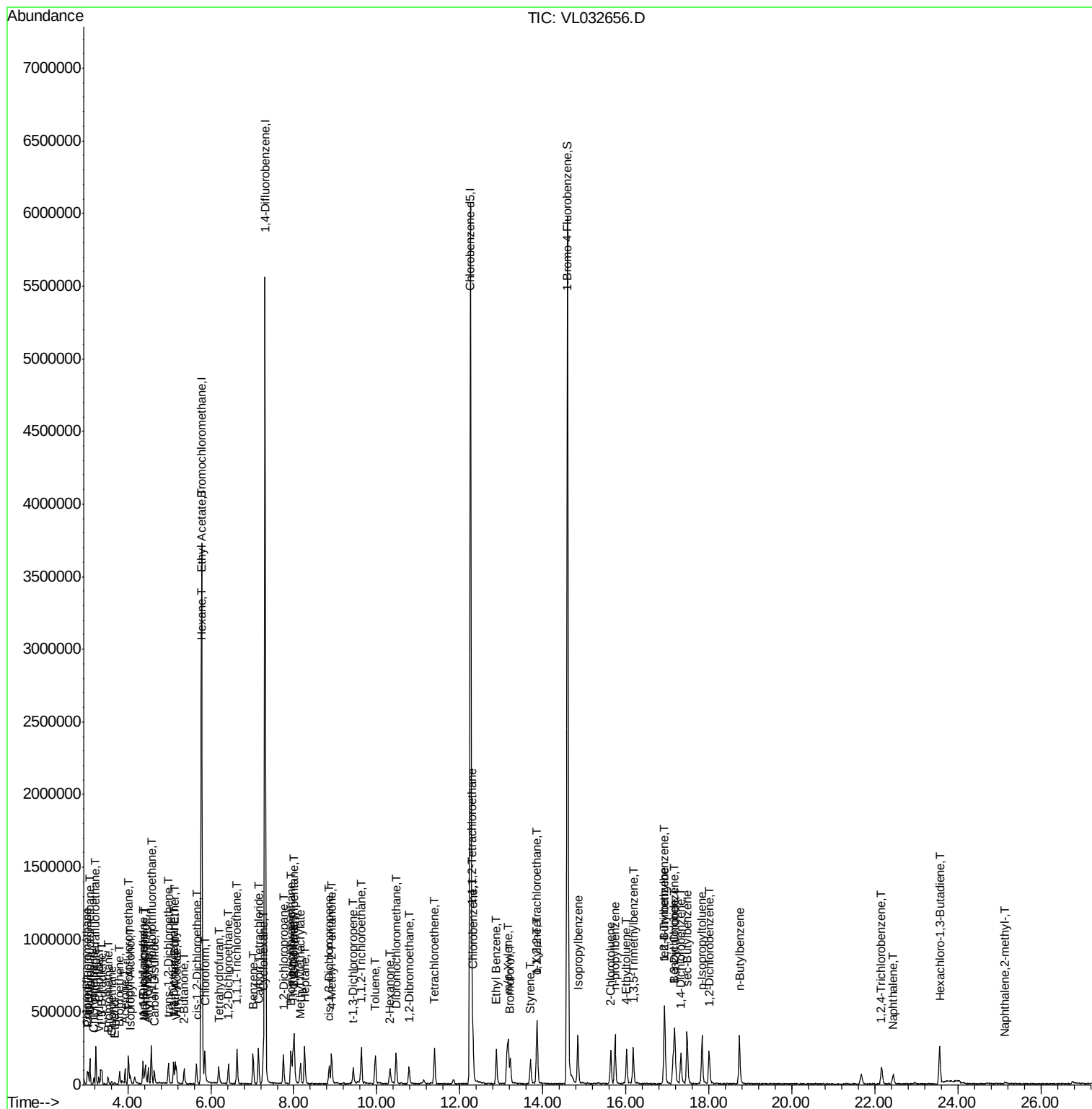
(#) = qualifier out of range (m) = manual integration (+) = signals summed

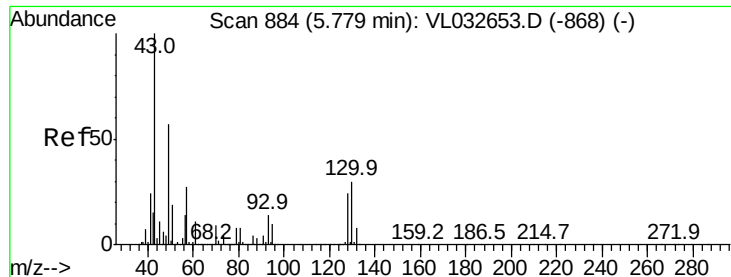
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

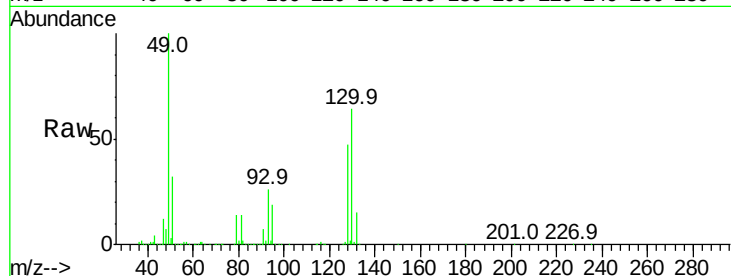
Tgt Ion: 49 Resp: 1711194

Ion Ratio Lower Upper

49 100

128 49.3 22.3 66.8

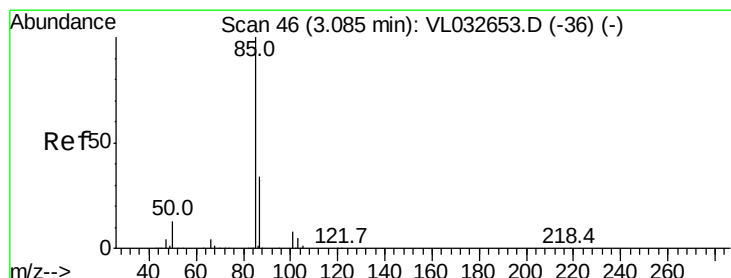
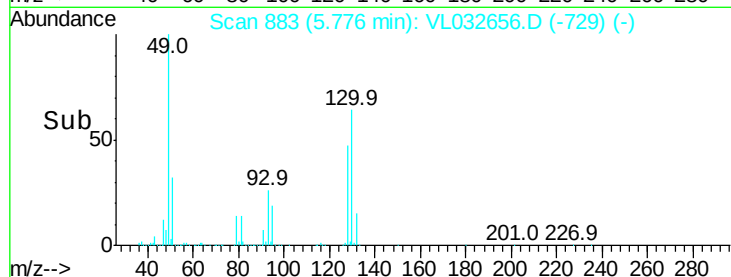
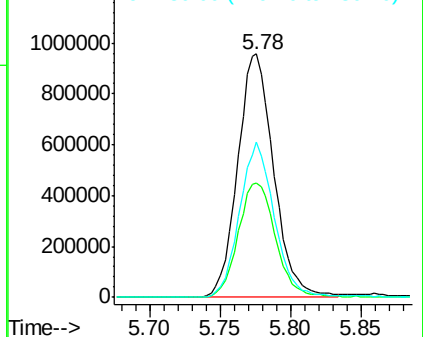
130 62.2 28.4 85.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.737 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032656.D

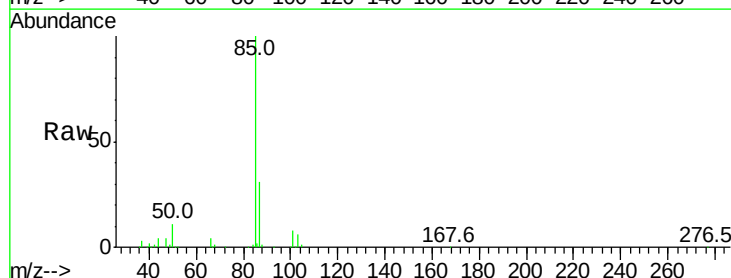
Acq: 18 Oct 2018 18:02

Tgt Ion: 85 Resp: 124367

Ion Ratio Lower Upper

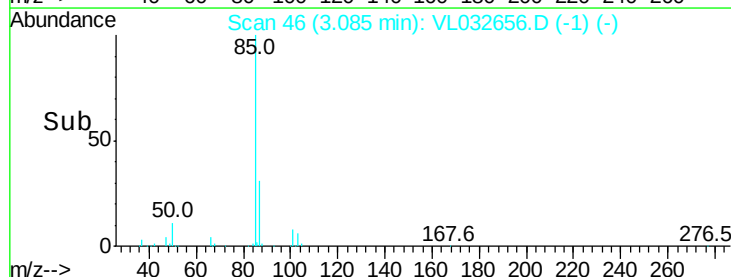
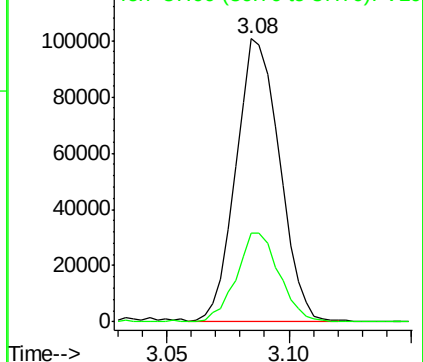
85 100

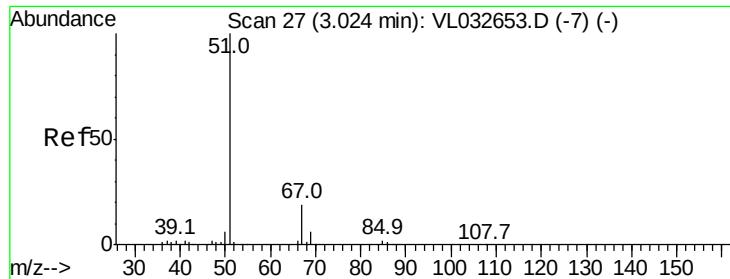
87 31.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.496 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

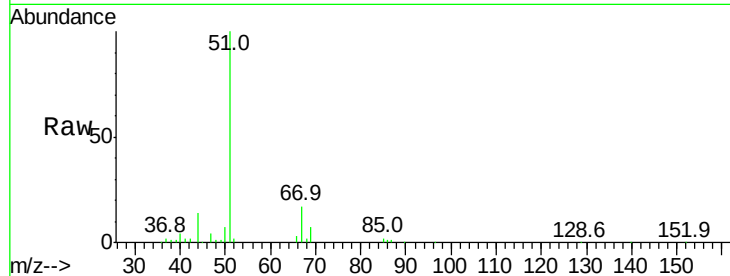
VSTDIC0.5

Tgt Ion: 51 Resp: 71012

Ion Ratio Lower Upper

51 100

67 18.7 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.03

60000

50000

40000

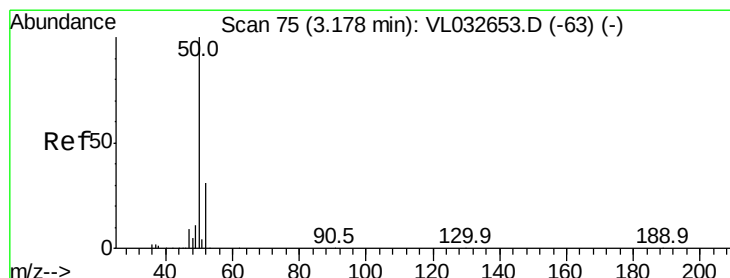
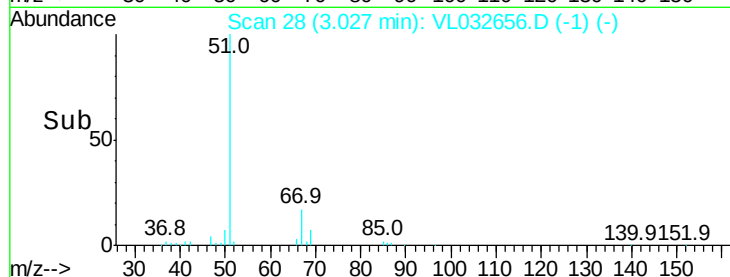
30000

20000

10000

0

Time-->



#4

Chloromethane

Concen: 0.499 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL032656.D

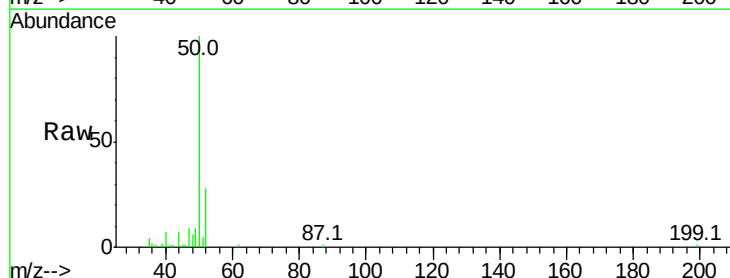
Acq: 18 Oct 2018 18:02

Tgt Ion: 50 Resp: 39019

Ion Ratio Lower Upper

50 100

52 27.8 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.18

30000

25000

20000

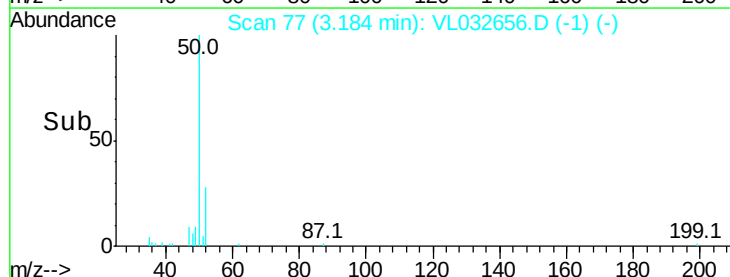
15000

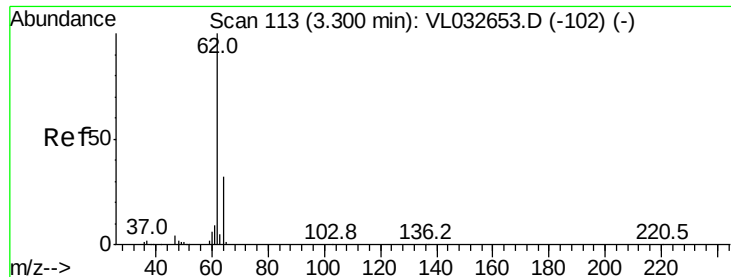
10000

5000

0

Time-->





#5

Vinyl Chloride

Concen: 0.489 ppbv

RT: 3.31 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

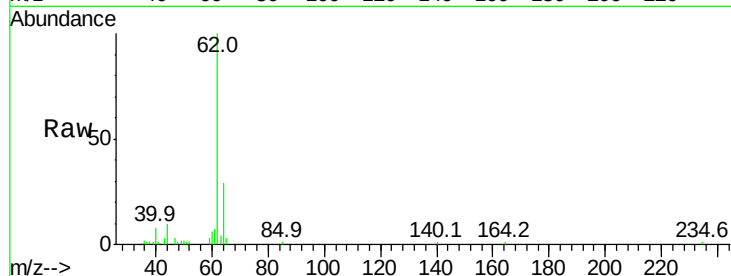
VSTDIC0.5

Tgt Ion: 62 Resp: 38508

Ion Ratio Lower Upper

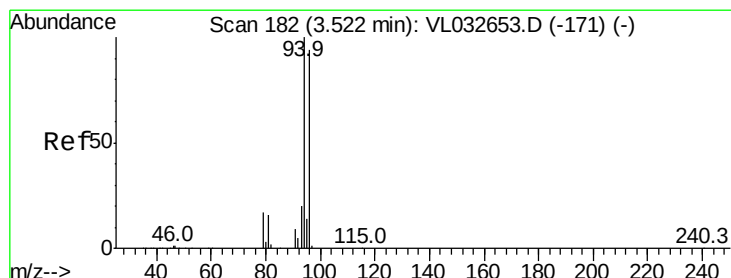
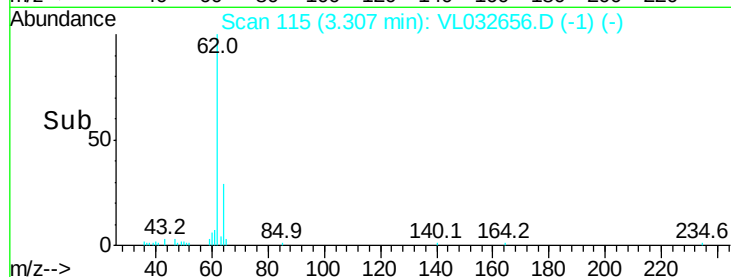
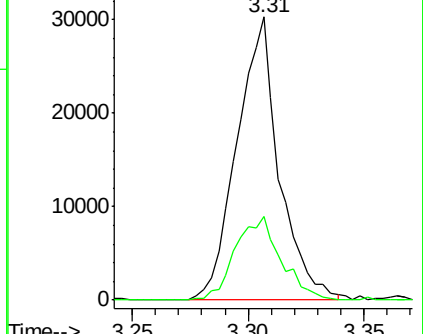
62 100

64 29.4 25.5 38.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.515 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032656.D

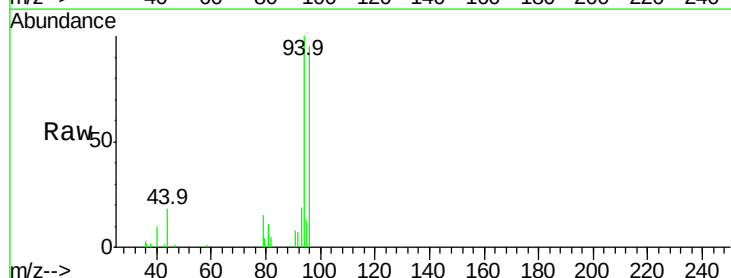
Acq: 18 Oct 2018 18:02

Tgt Ion: 94 Resp: 25622

Ion Ratio Lower Upper

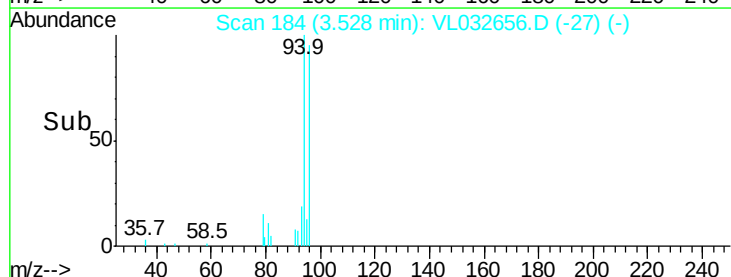
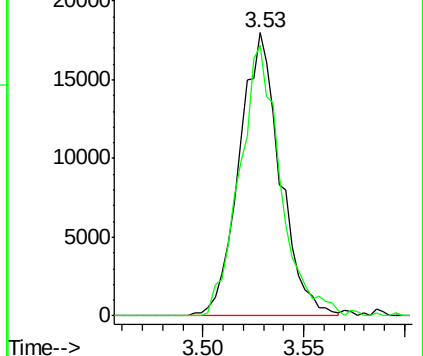
94 100

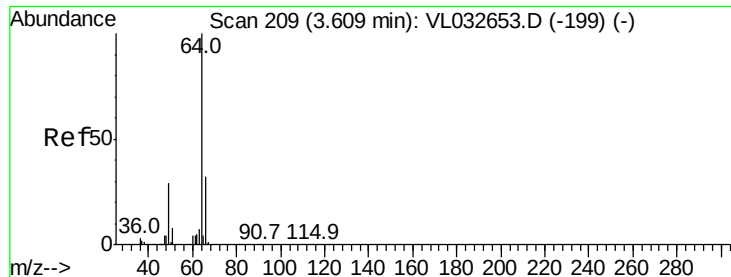
96 95.5 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.463 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

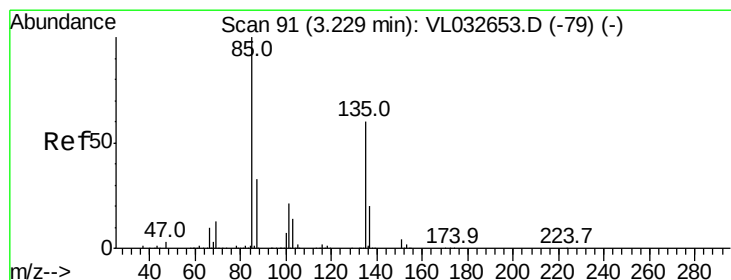
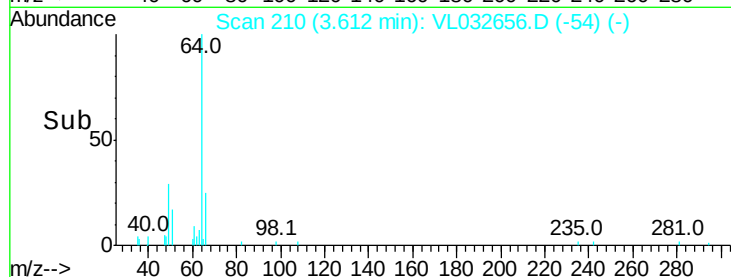
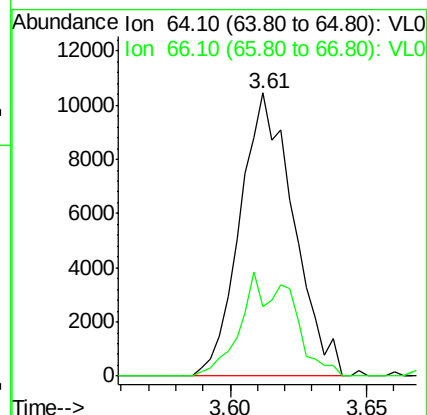
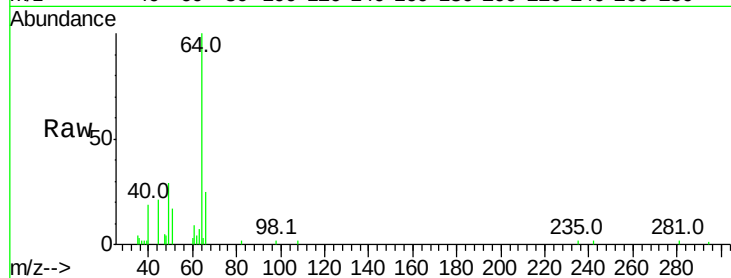
VSTDIC0.5

Tgt Ion: 64 Resp: 14265

Ion Ratio Lower Upper

64 100

66 24.7 24.4 36.6



#8

Dichlorotetrafluoroethane

Concen: 0.516 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032656.D

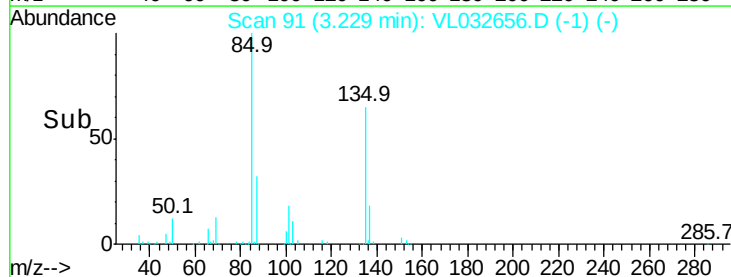
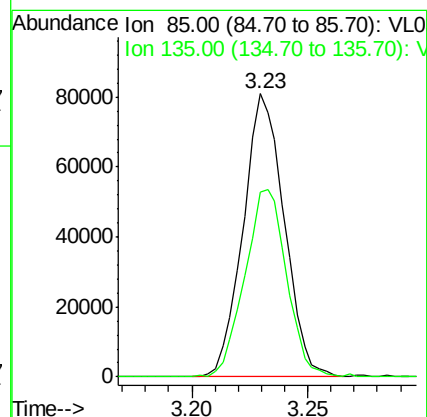
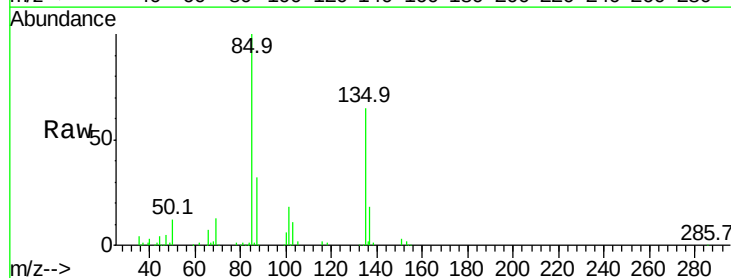
Acq: 18 Oct 2018 18:02

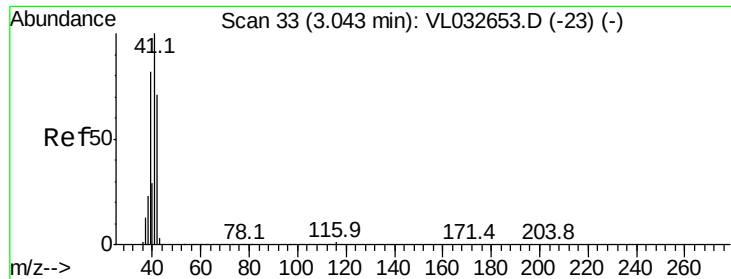
Tgt Ion: 85 Resp: 99555

Ion Ratio Lower Upper

85 100

135 67.5 49.0 73.4





#9

Propene

Concen: 0.516 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

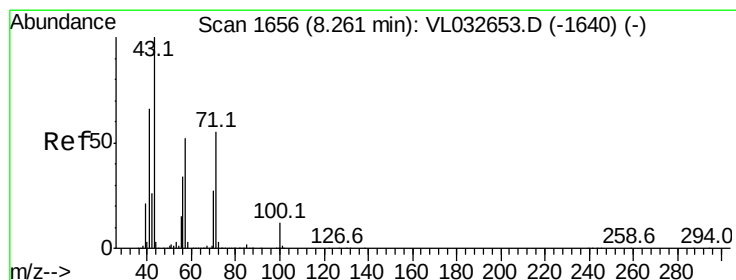
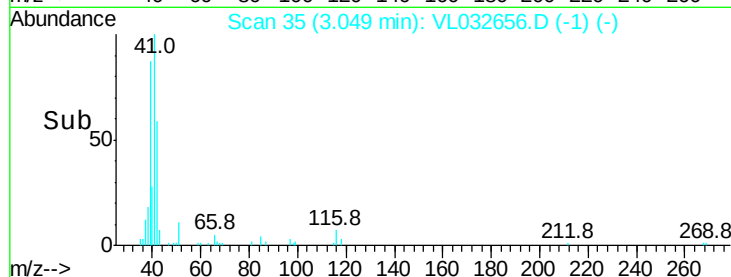
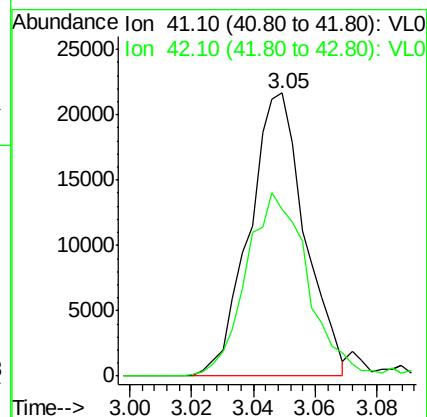
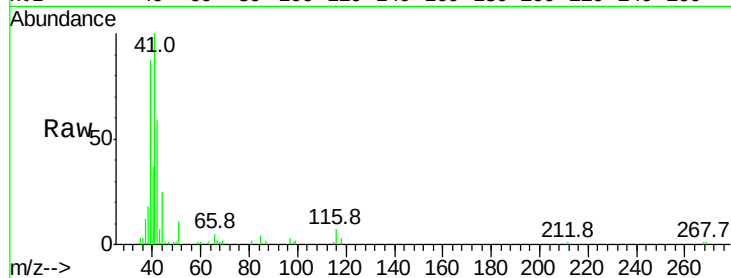
VSTDIC0.5

Tgt Ion: 41 Resp: 27096

Ion Ratio Lower Upper

41 100

42 73.8 55.4 83.0



#10

Heptane

Concen: 0.246 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032656.D

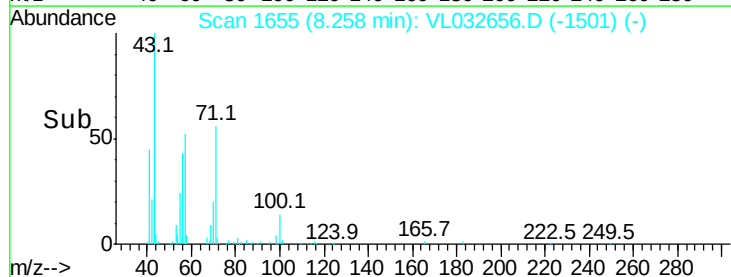
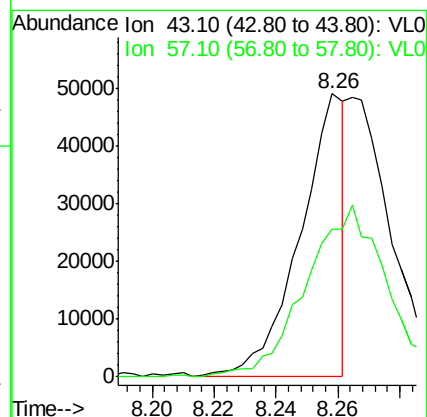
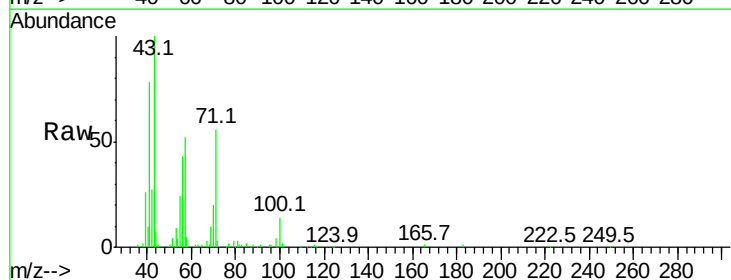
Acq: 18 Oct 2018 18:02

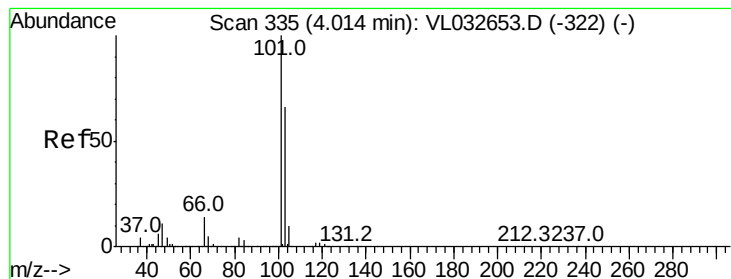
Tgt Ion: 43 Resp: 48362

Ion Ratio Lower Upper

43 100

57 0.0 41.5 62.3#





#11

Trichlorofluoromethane

Concen: 0.582 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

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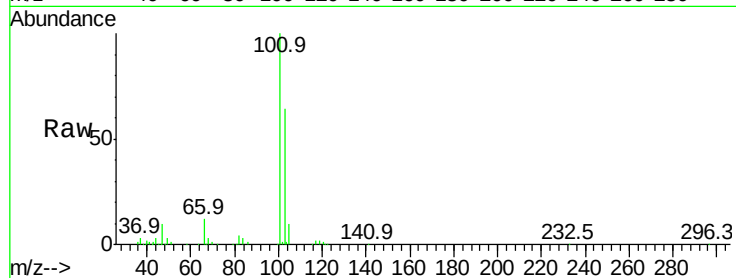
VSTDIC0.5

Tgt Ion:101 Resp: 127990

Ion Ratio Lower Upper

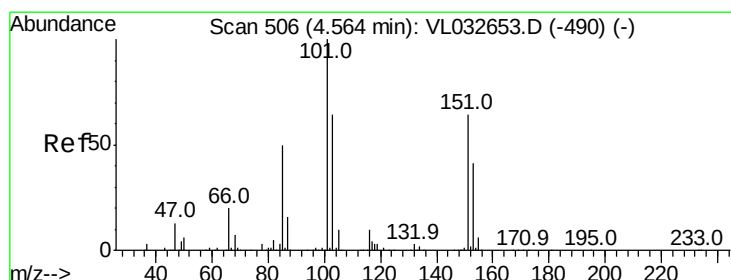
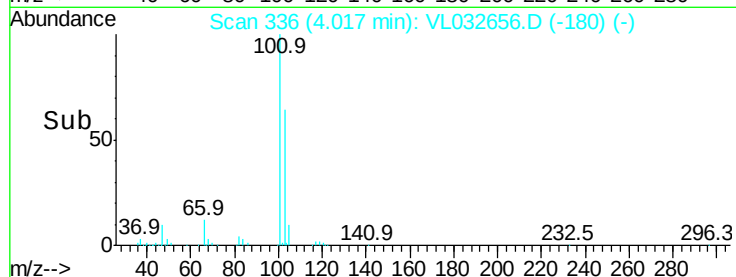
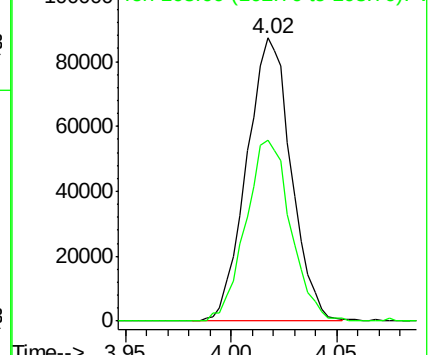
101 100

103 63.9 51.4 77.2



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: 0.590 ppbv

RT: 4.56 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL032656.D

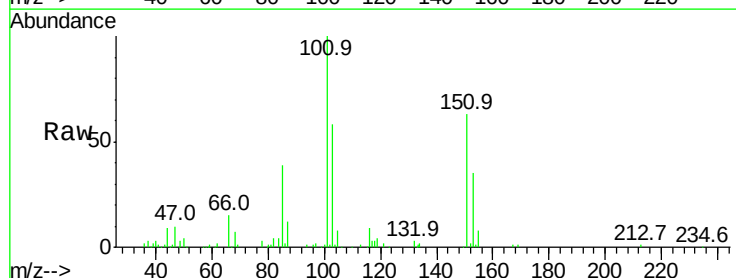
Acq: 18 Oct 2018 18:02

Tgt Ion:101 Resp: 94890

Ion Ratio Lower Upper

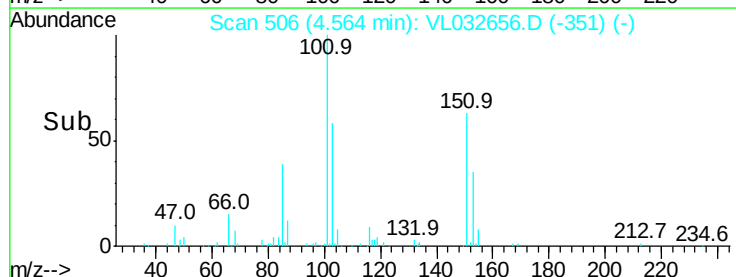
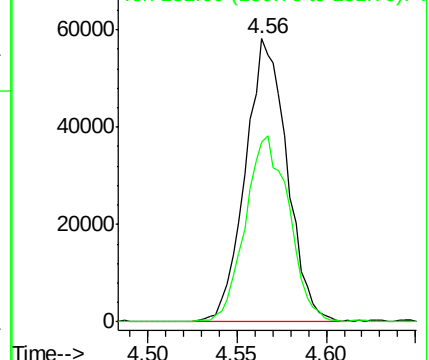
101 100

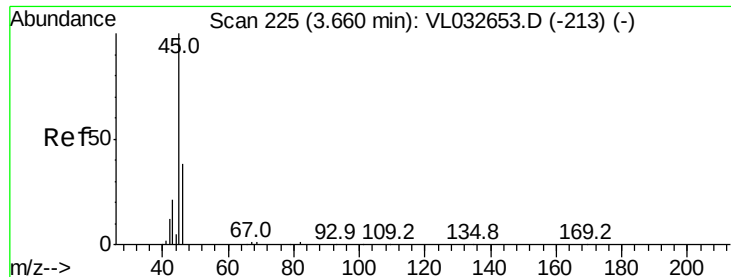
151 68.9 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.206 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

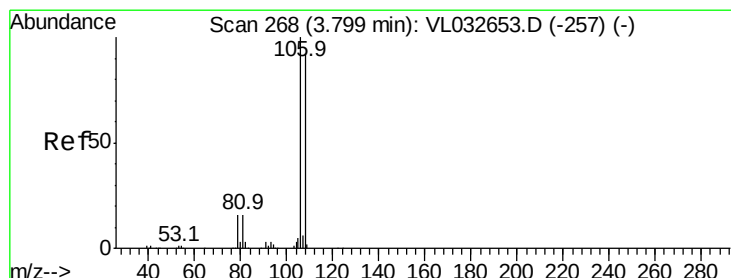
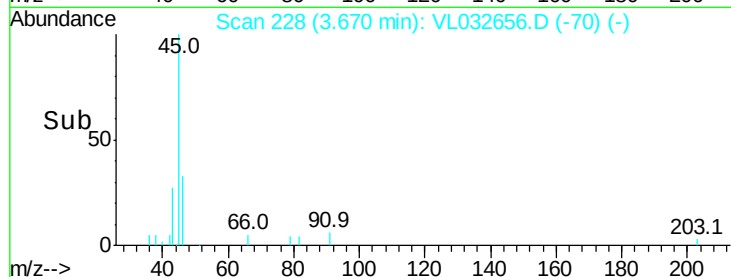
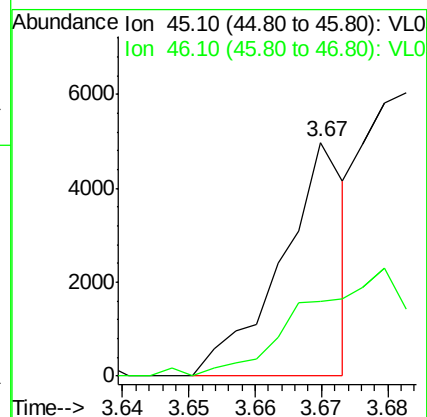
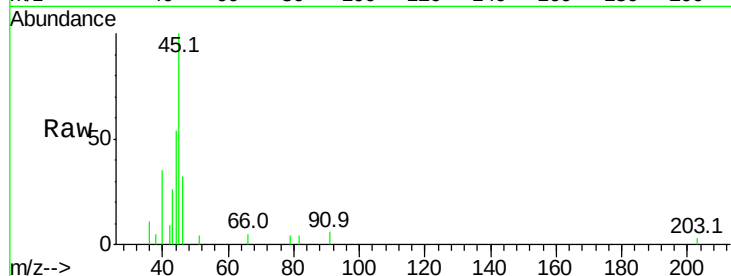
VSTDIC0.5

Tgt Ion: 45 Resp: 3340

Ion Ratio Lower Upper

45 100

46 6.0 15.4 61.8#



#14

Bromoethene

Concen: 0.571 ppbv

RT: 3.80 min Scan# 269

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

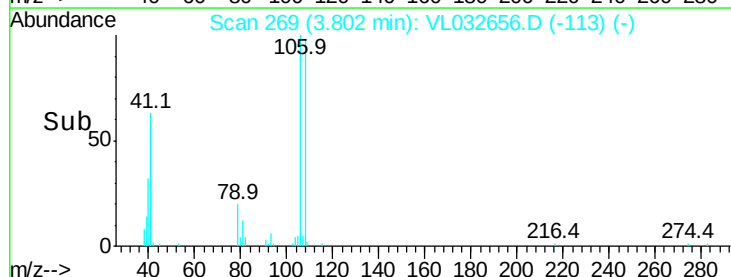
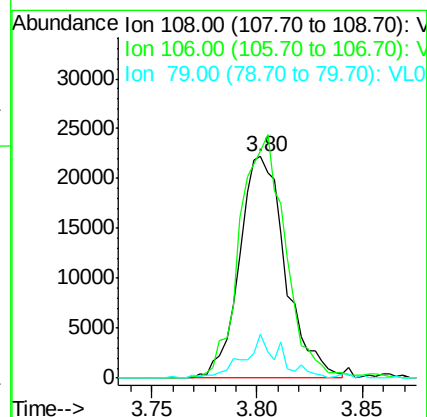
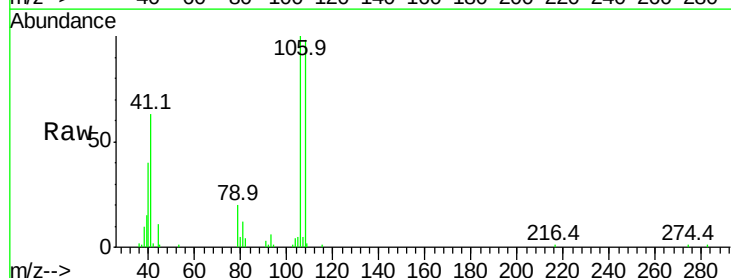
Tgt Ion: 108 Resp: 33652

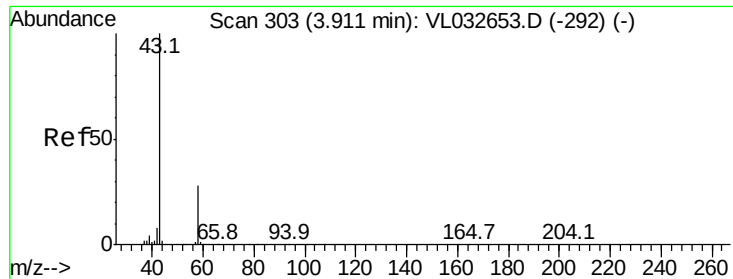
Ion Ratio Lower Upper

108 100

106 109.3 85.0 127.4

79 16.7 13.7 20.5





#15

Acetone

Concen: 0.594 ppbv

RT: 3.93 min Scan# 310

Delta R.T. 0.02 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

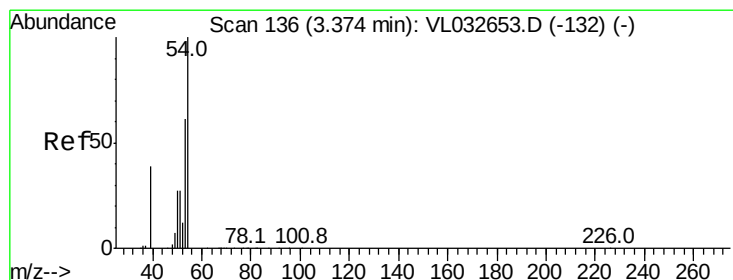
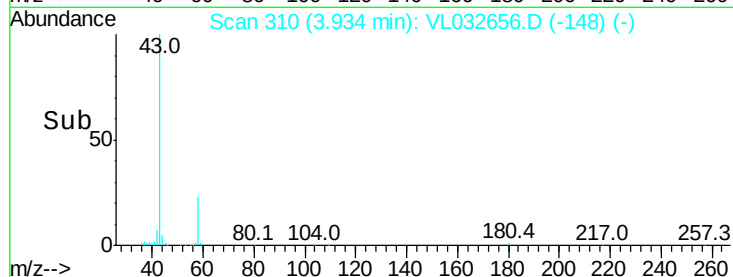
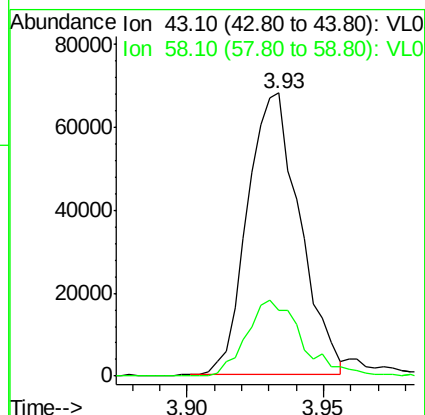
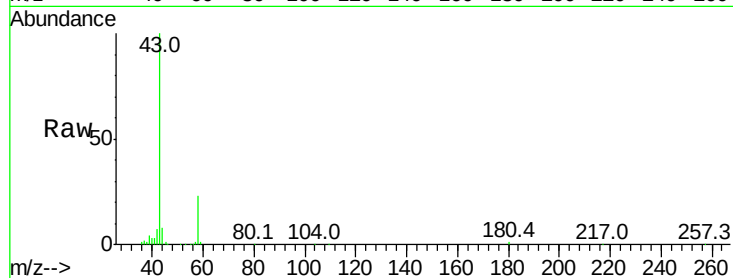
VSTDIC0.5

Tgt Ion: 43 Resp: 90477

Ion Ratio Lower Upper

43 100

58 28.8 22.1 33.1



#16

1,3-Butadiene

Concen: 0.517 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL032656.D

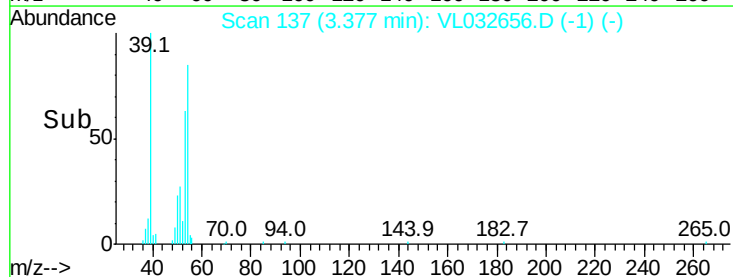
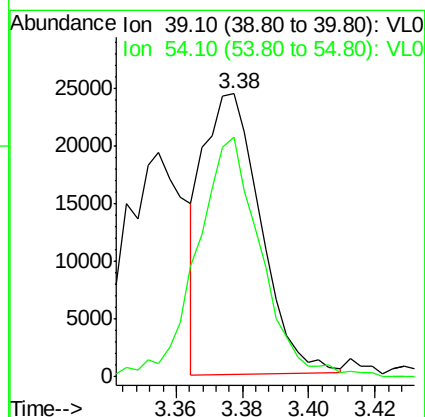
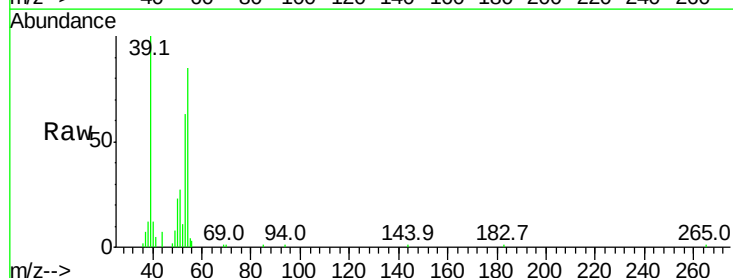
Acq: 18 Oct 2018 18:02

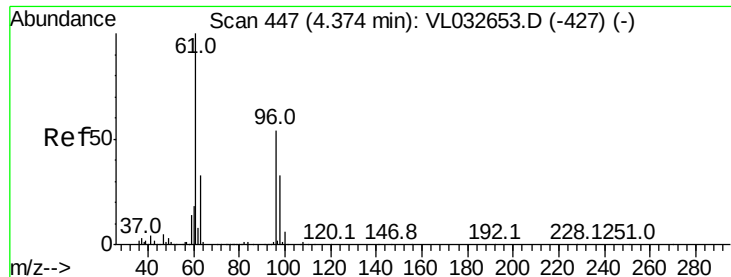
Tgt Ion: 39 Resp: 29178

Ion Ratio Lower Upper

39 100

54 95.0 90.4 135.6





#17

tert-Butyl alcohol

Concen: 0.046 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.02 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

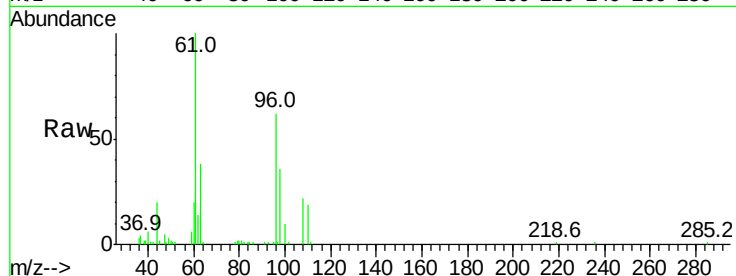
VSTDIC0.5

Tgt Ion: 59 Resp: 646

Ion Ratio Lower Upper

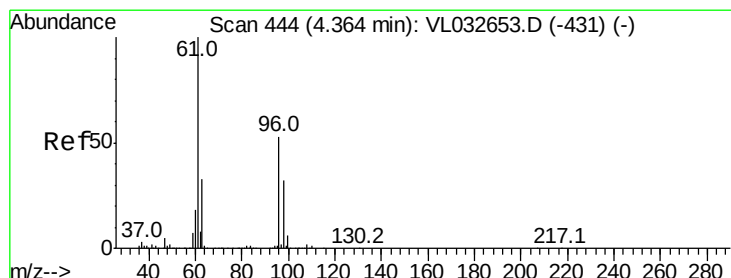
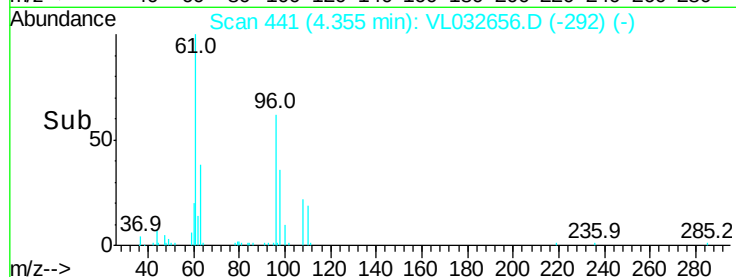
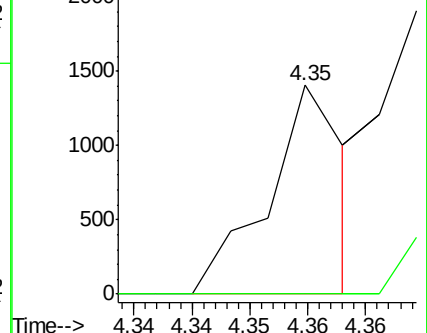
59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.564 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

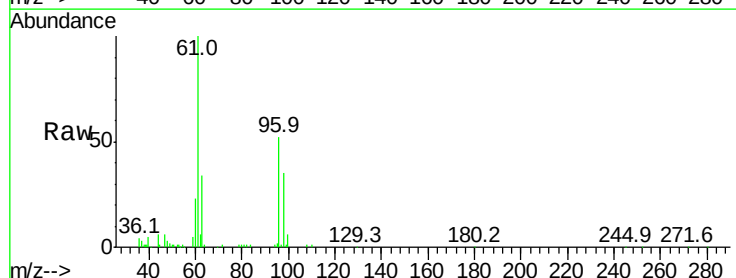
Tgt Ion: 96 Resp: 40913

Ion Ratio Lower Upper

96 100

61 191.5 151.6 227.4

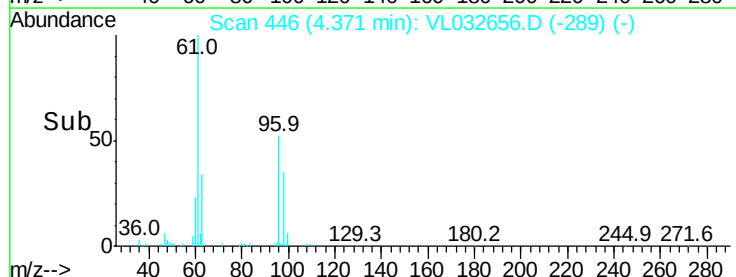
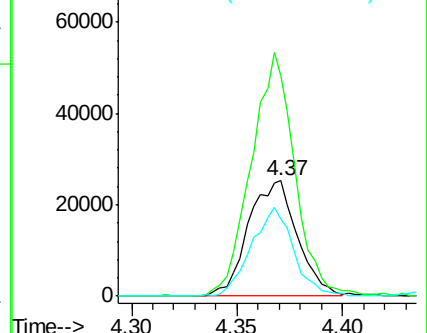
98 66.9 50.6 75.8

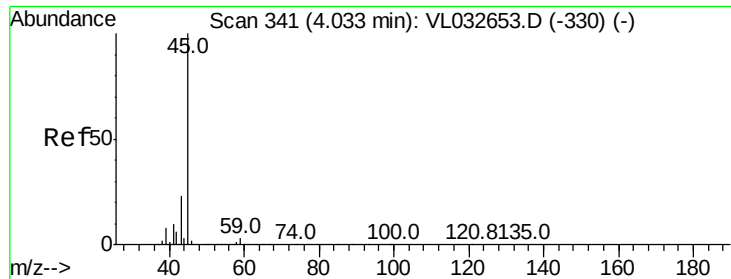


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.544 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

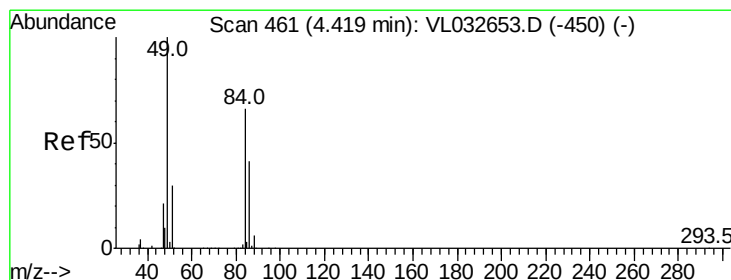
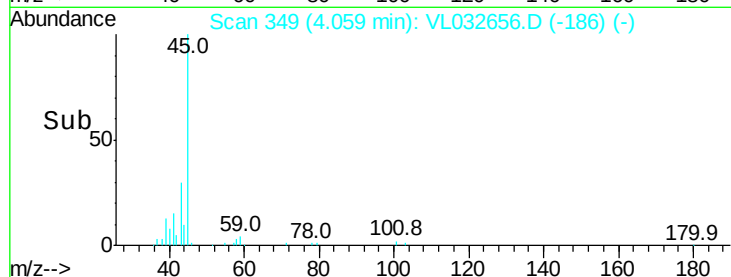
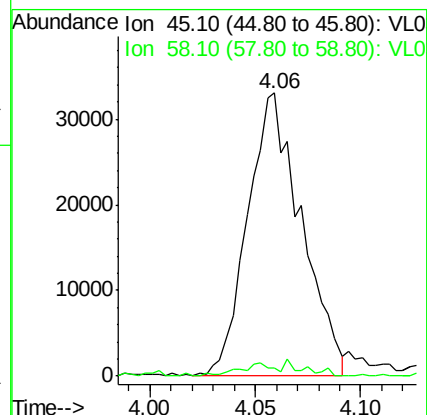
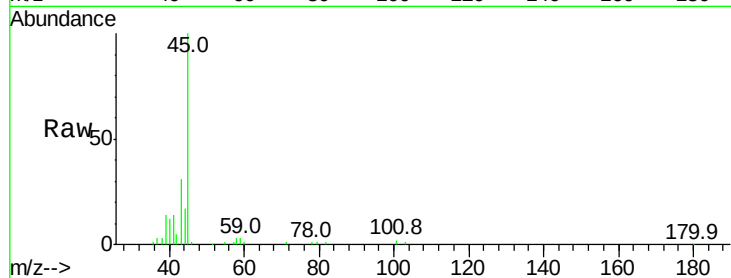
VSTDIC0.5

Tgt Ion: 45 Resp: 58451

Ion Ratio Lower Upper

45 100

58 5.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.614 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion: 84 Resp: 41873

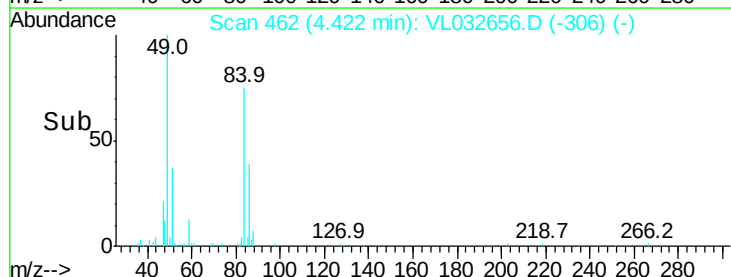
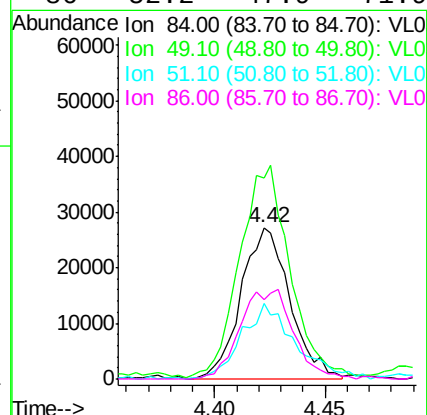
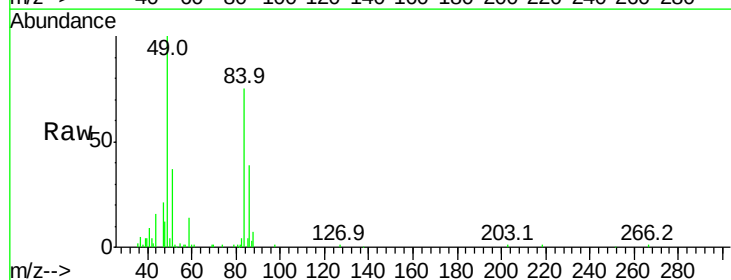
Ion Ratio Lower Upper

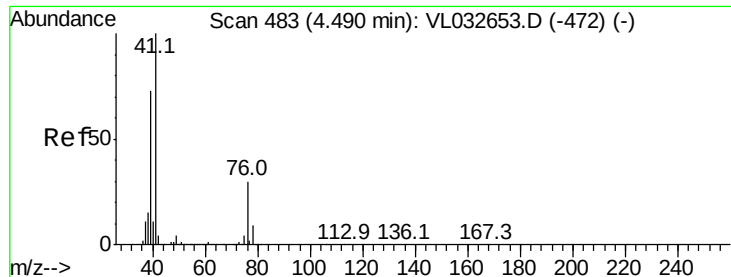
84 100

49 130.2 113.5 170.3

51 49.0 34.8 52.2

86 52.2 47.9 71.9





#21

Allyl Chloride

Concen: 0.516 ppbv

RT: 4.49 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

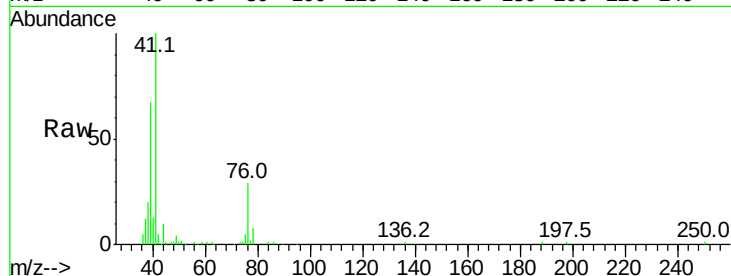
Tgt Ion: 41 Resp: 59024

Ion Ratio Lower Upper

41 100

76 31.1 24.3 36.5

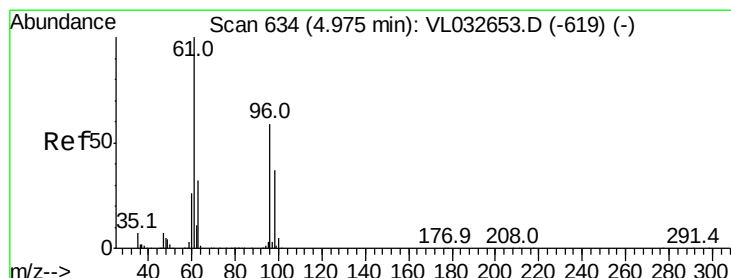
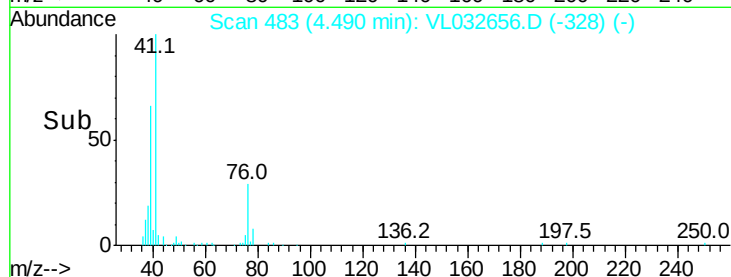
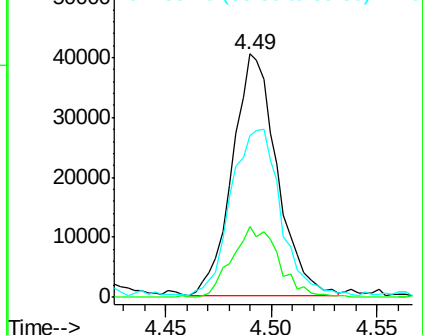
39 78.6 60.3 90.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.543 ppbv

RT: 4.98 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

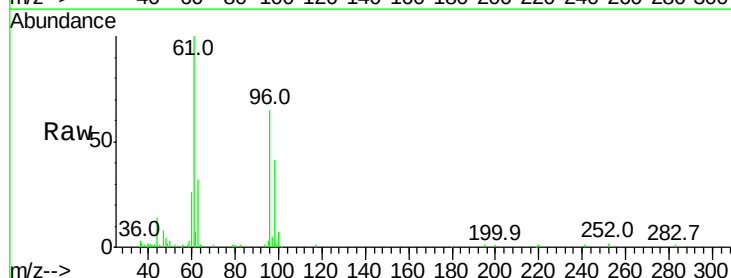
Tgt Ion: 96 Resp: 45559

Ion Ratio Lower Upper

96 100

61 154.4 140.4 210.6

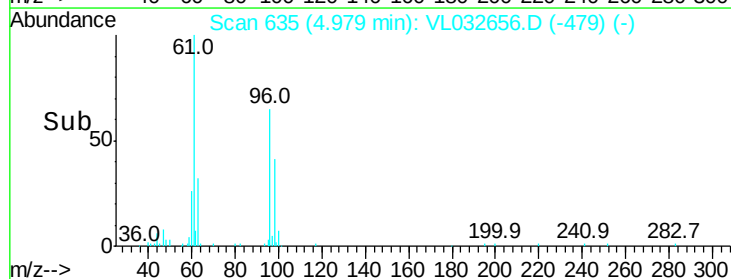
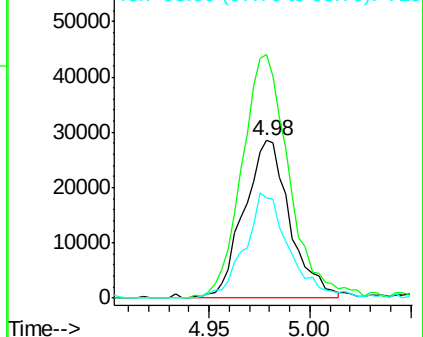
98 63.8 55.0 82.6

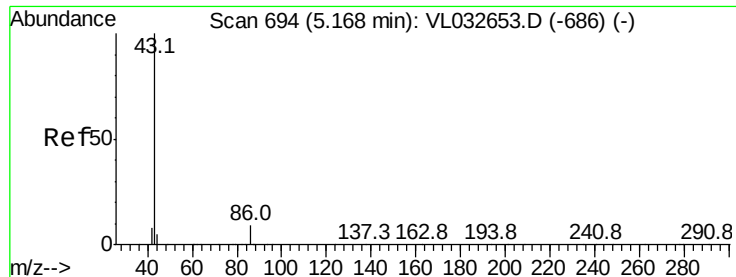


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.514 ppbv

RT: 5.17 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

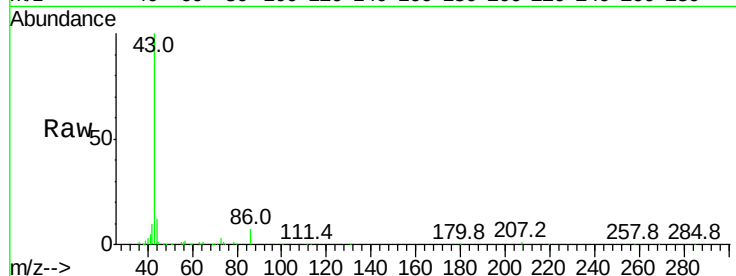
ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 124489

Ion Ratio Lower Upper

43	100		
86	6.3	6.1	9.1
42	9.8	7.4	11.2
44	9.3	4.2	6.2#

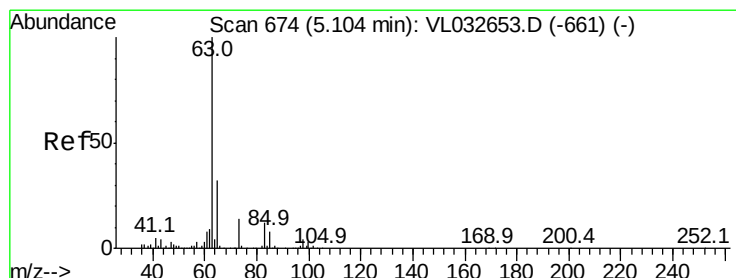
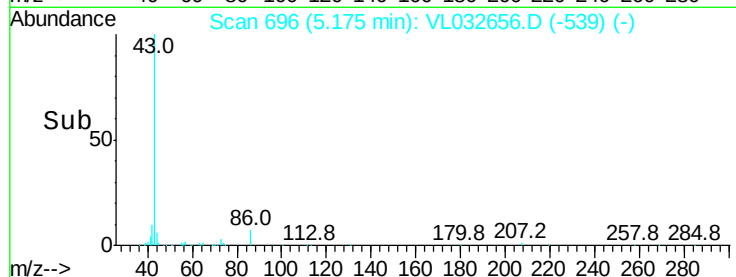
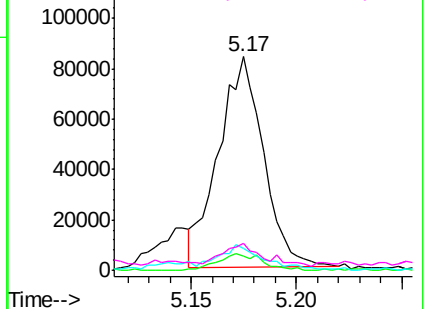


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.499 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

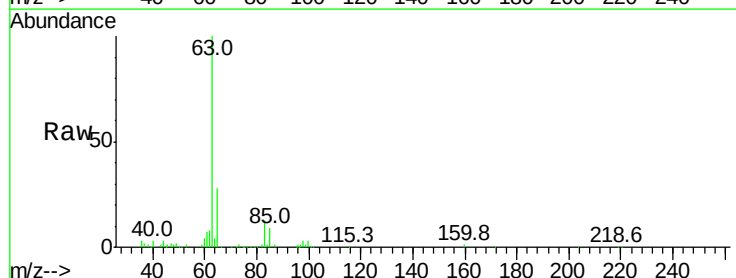
Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion: 63 Resp: 112057

Ion Ratio Lower Upper

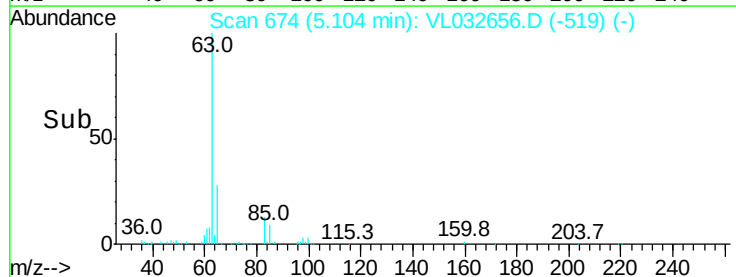
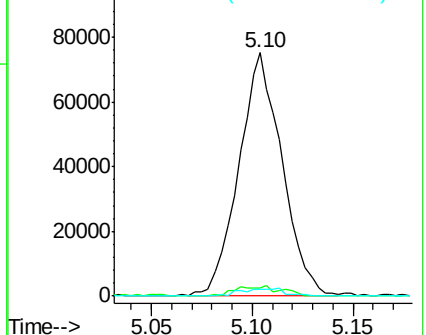
63	100		
98	3.9	2.1	6.3
100	3.0	1.2	3.6

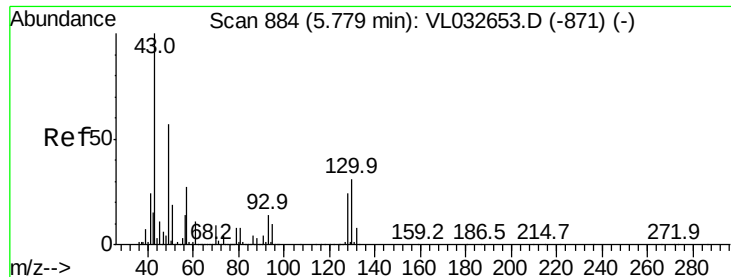


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

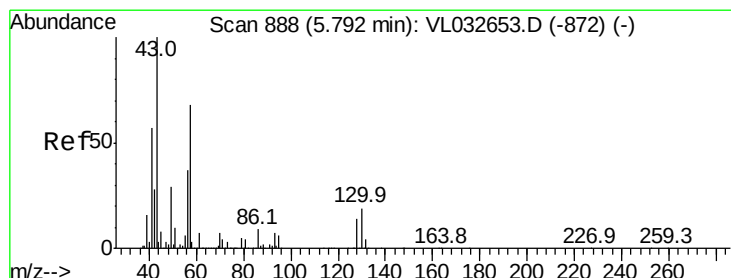
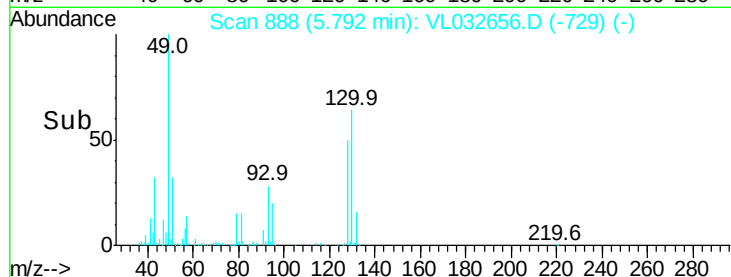
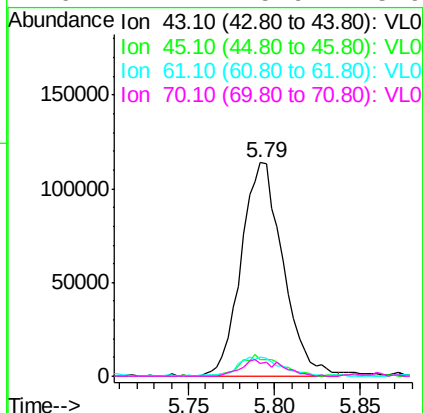
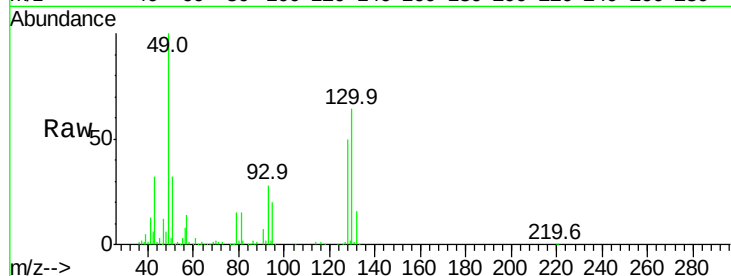




#25
Ethyl Acetate
Concen: 0.533 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.01 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

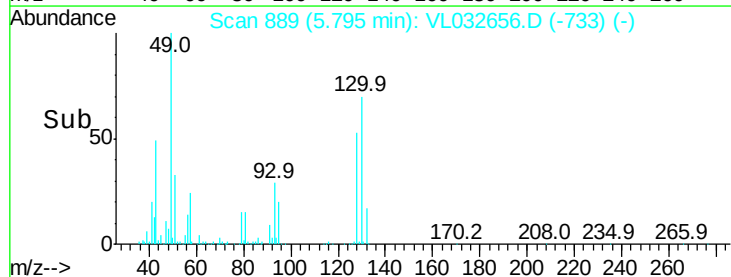
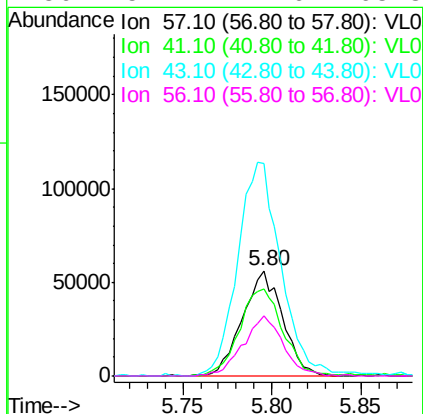
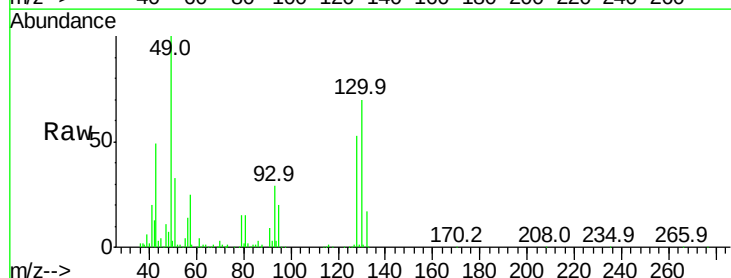
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

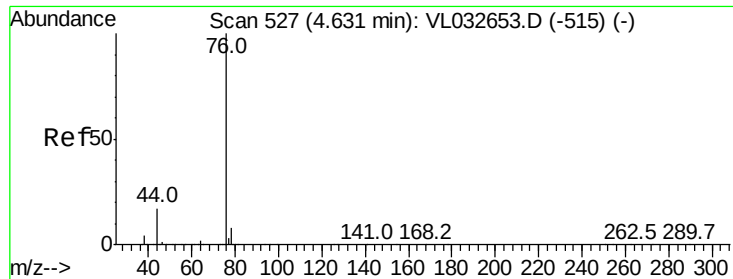
Tgt Ion:	43	Resp:	191892
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.0	12.0
61	9.6	8.0	12.0
70	7.4	5.9	8.9



#26
Hexane
Concen: 0.545 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion:	57	Resp:	88444
Ion	Ratio	Lower	Upper
57	100		
41	92.1	67.4	101.0
43	220.0	171.9	257.9
56	57.2	42.6	63.8





#27

Carbon Disulfide

Concen: 0.507 ppbv

RT: 4.64 min Scan# 529

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

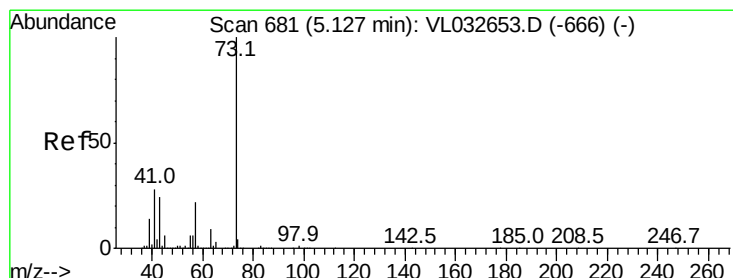
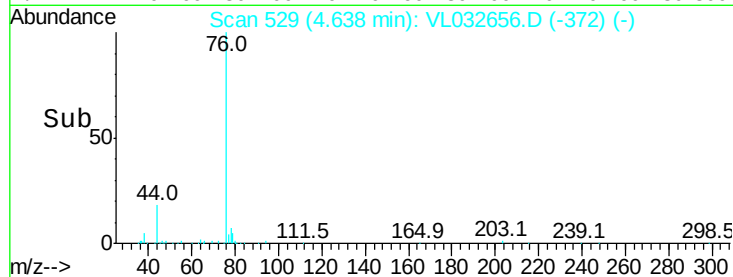
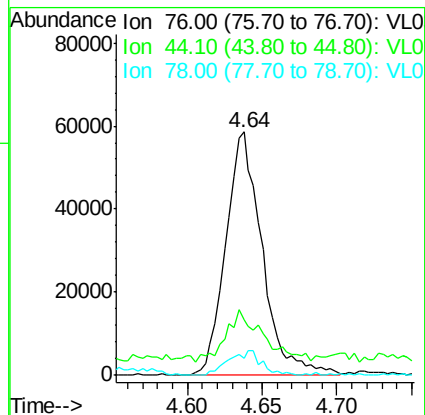
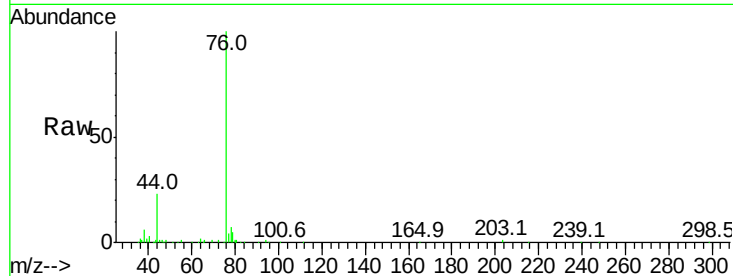
Tgt Ion: 76 Resp: 99349

Ion Ratio Lower Upper

76 100

44 25.0 13.7 20.5#

78 9.6 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 0.513 ppbv

RT: 5.14 min Scan# 685

Delta R.T. 0.01 min

Lab File: VL032656.D

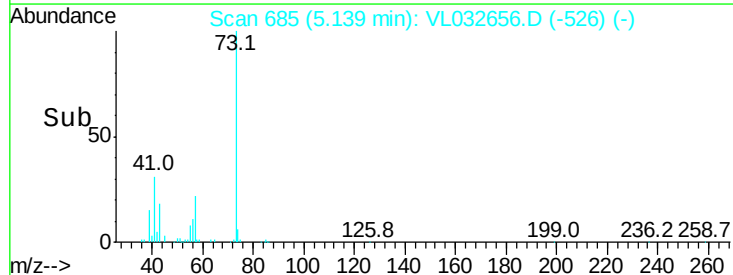
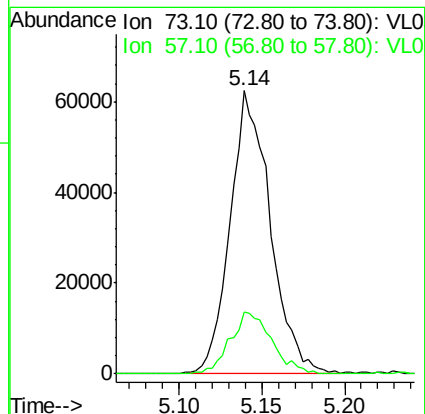
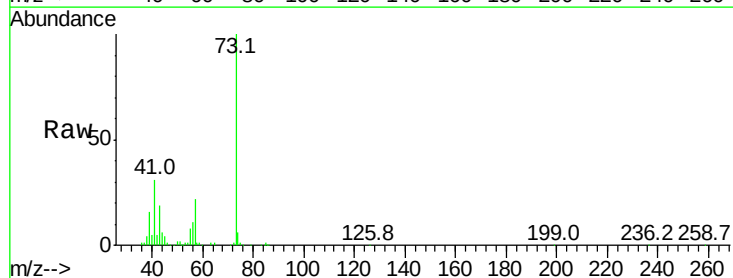
Acq: 18 Oct 2018 18:02

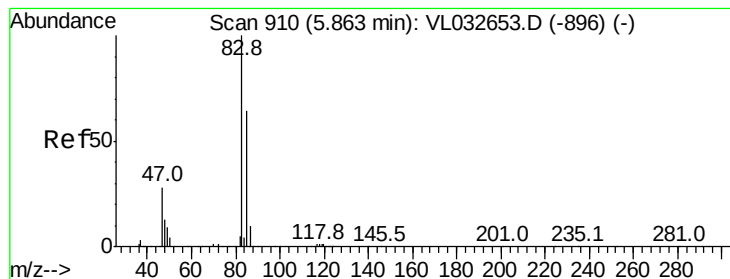
Tgt Ion: 73 Resp: 104718

Ion Ratio Lower Upper

73 100

57 22.7 18.0 27.0





#29

Chloroform

Concen: 0.495 ppbv

RT: 5.86 min Scan# 910

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

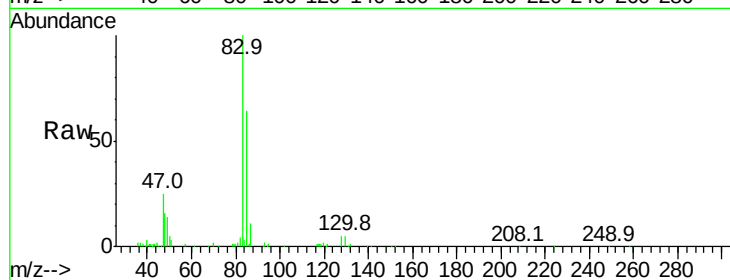
VSTDIC0.5

Tgt Ion: 83 Resp: 140880

Ion Ratio Lower Upper

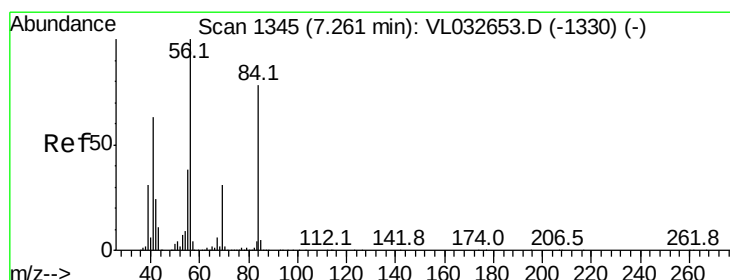
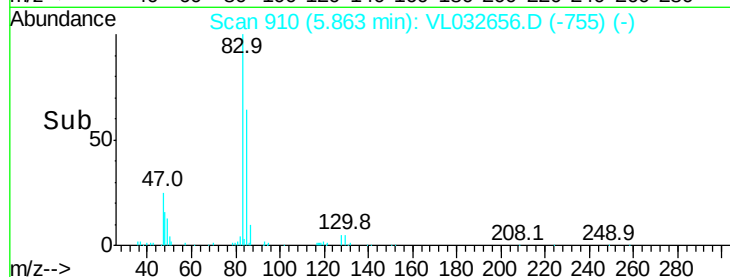
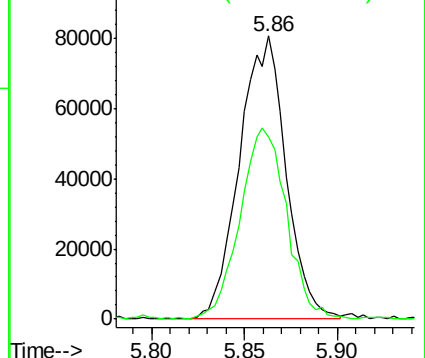
83 100

85 64.0 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.467 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

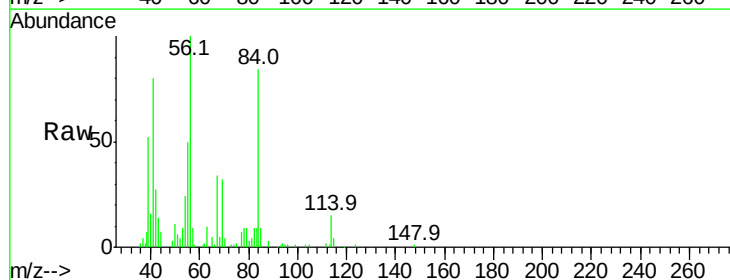
Tgt Ion: 84 Resp: 59733

Ion Ratio Lower Upper

84 100

56 126.8 108.3 162.5

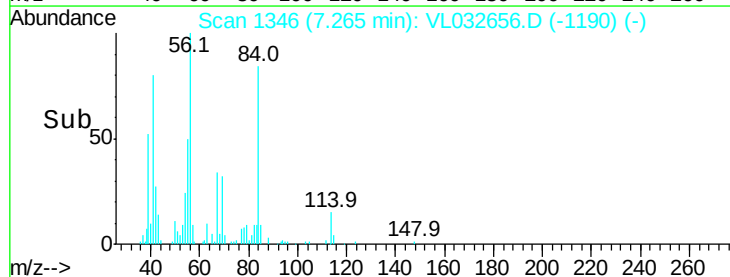
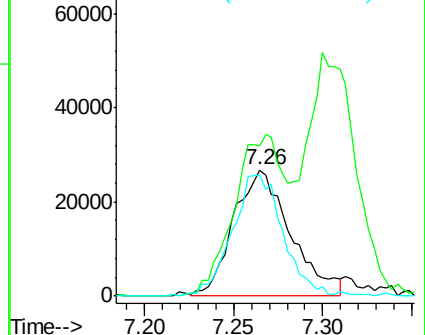
41 86.7 64.8 97.2

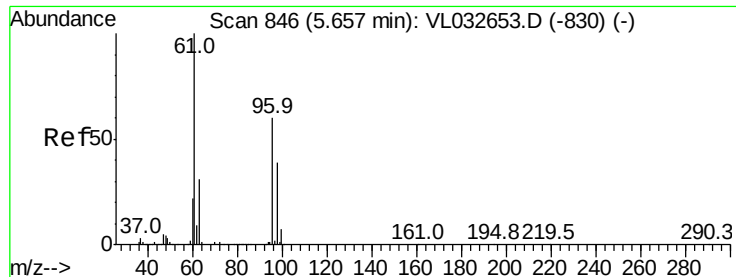


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.442 ppbv

RT: 5.65 min Scan# 845

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

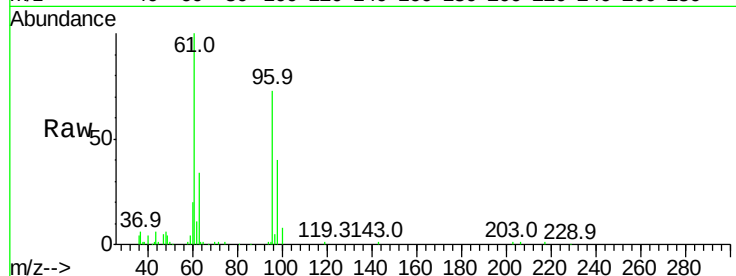
Tgt Ion: 61 Resp: 68959

Ion Ratio Lower Upper

61 100

96 73.2 51.8 77.6

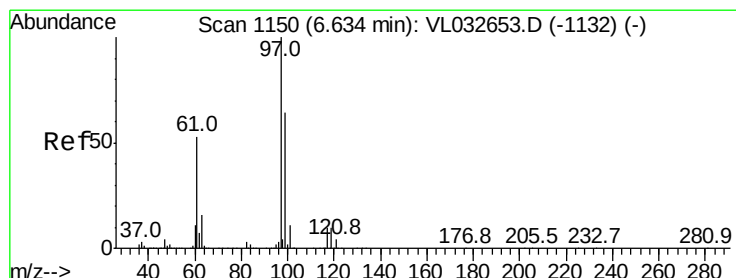
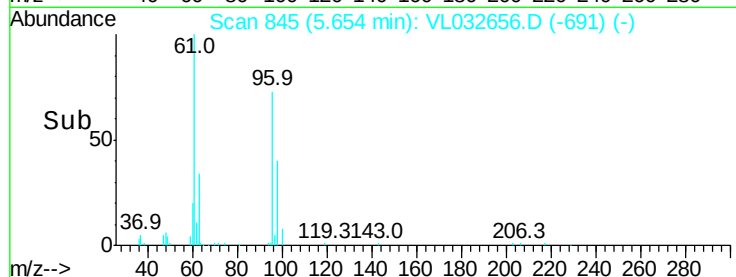
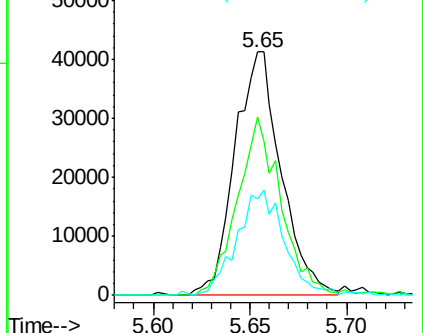
98 39.3 33.8 50.6



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.501 ppbv

RT: 6.63 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

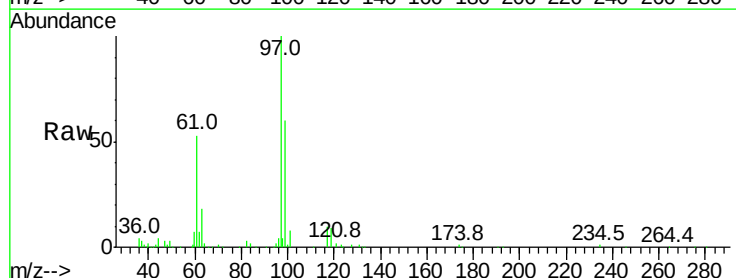
Tgt Ion: 97 Resp: 142075

Ion Ratio Lower Upper

97 100

99 63.5 52.0 78.0

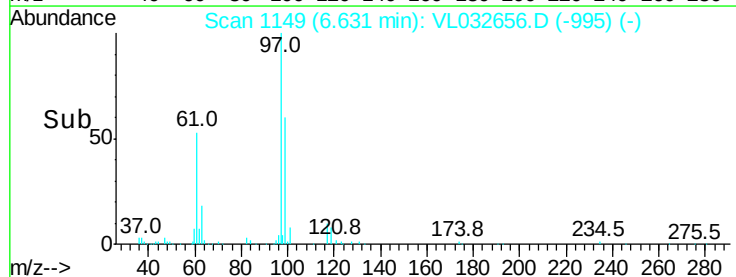
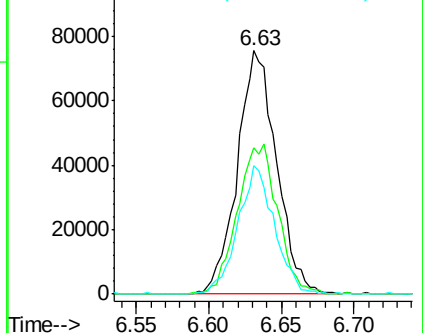
61 49.2 40.7 61.1

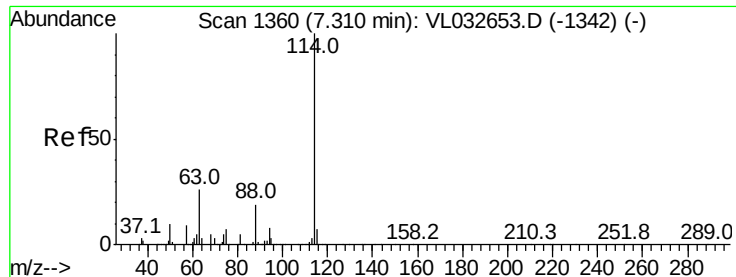


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.31 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

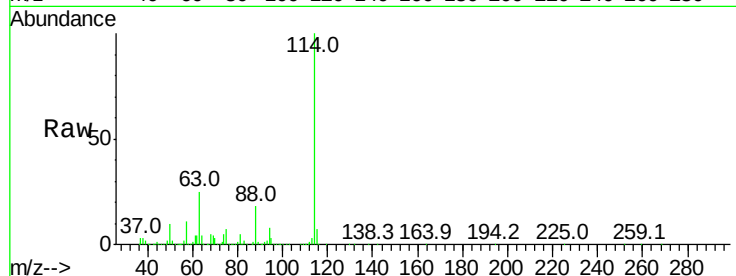
Tgt Ion:114 Resp: 4097222

Ion Ratio Lower Upper

114 100

63 25.3 21.7 32.5

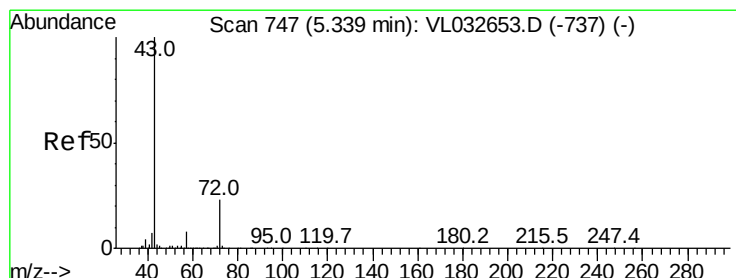
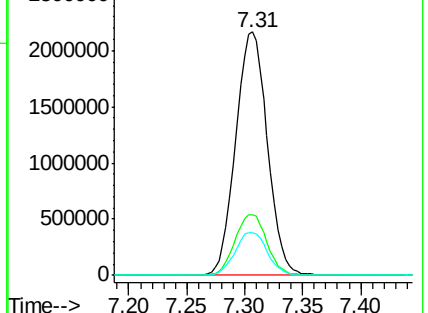
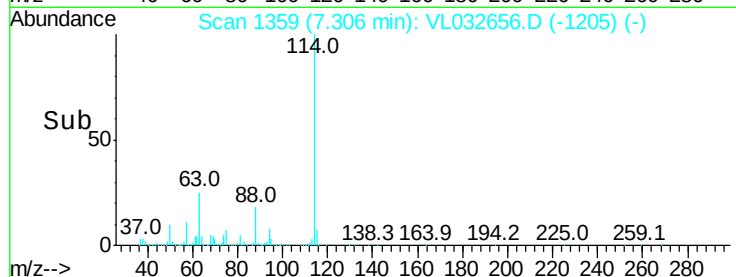
88 17.9 14.9 22.3



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: 0.459 ppbv

RT: 5.36 min Scan# 753

Delta R.T. 0.02 min

Lab File: VL032656.D

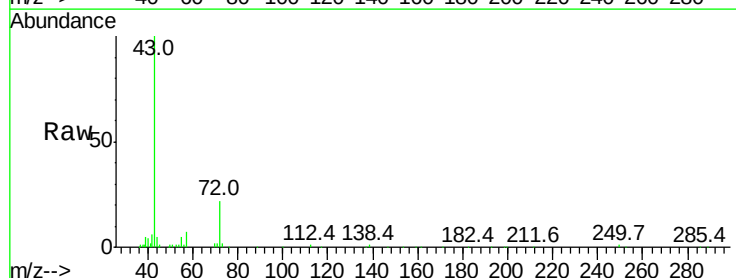
Acq: 18 Oct 2018 18:02

Tgt Ion: 43 Resp: 104455

Ion Ratio Lower Upper

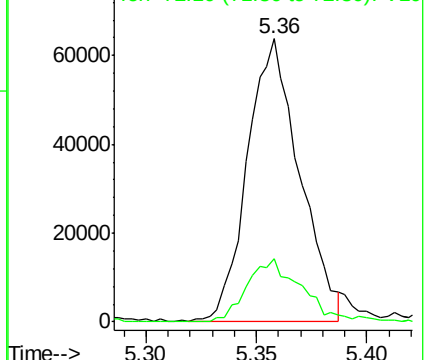
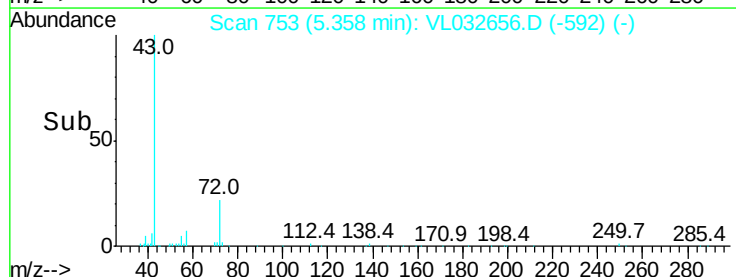
43 100

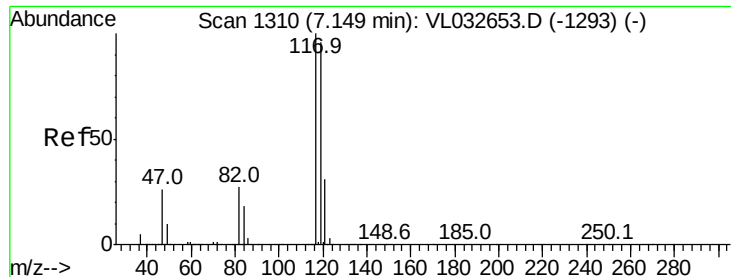
72 23.6 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.454 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

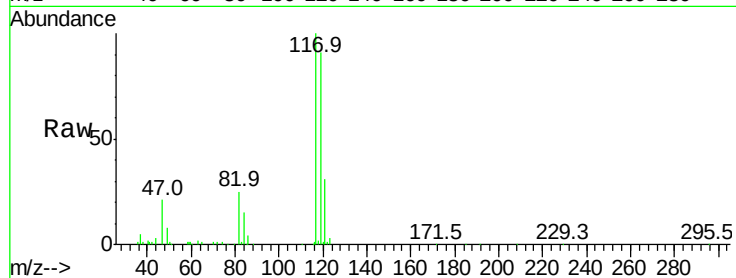
Tgt Ion:117 Resp: 144207

Ion Ratio Lower Upper

117 100

119 90.3 75.7 113.5

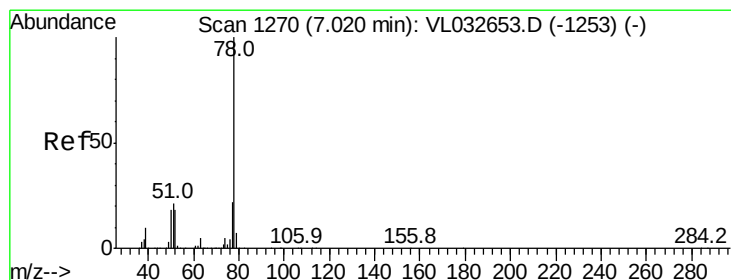
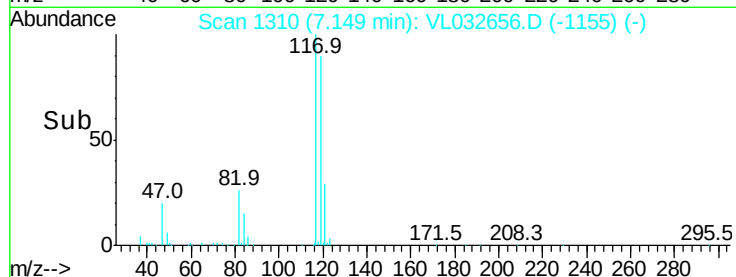
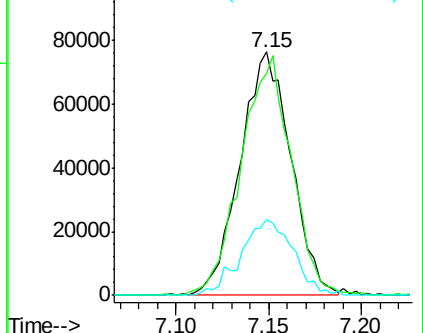
121 30.8 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.487 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

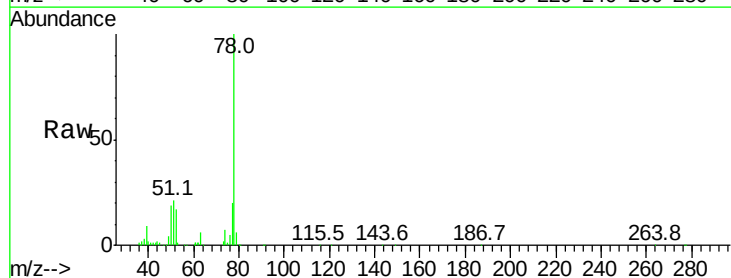
Tgt Ion: 78 Resp: 161716

Ion Ratio Lower Upper

78 100

77 20.5 18.1 27.1

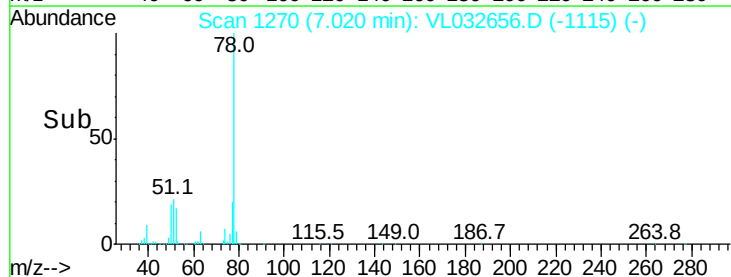
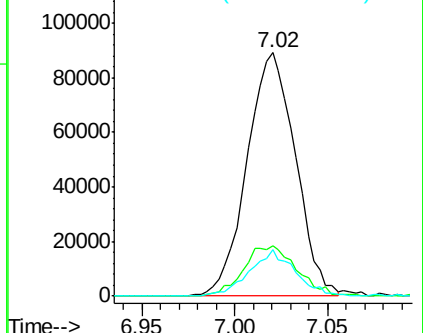
50 19.3 15.1 22.7

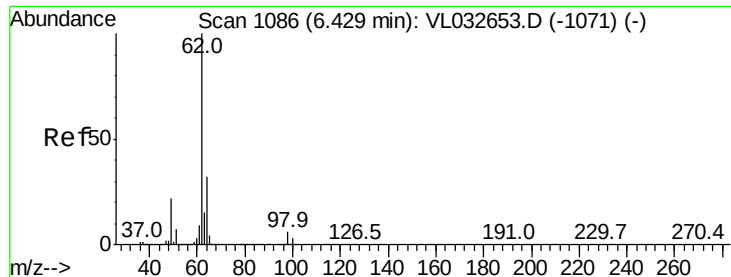


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

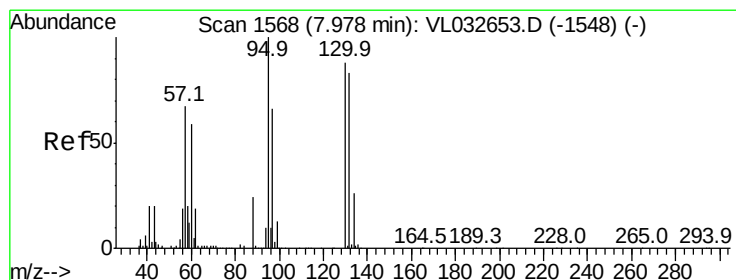
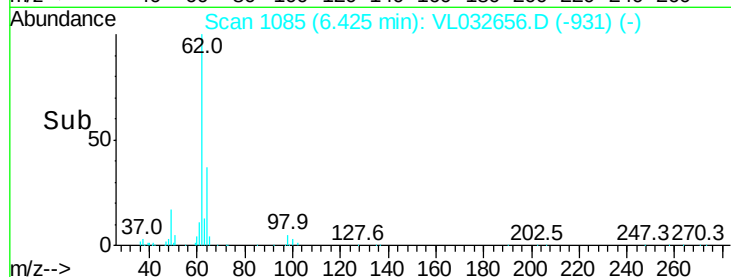
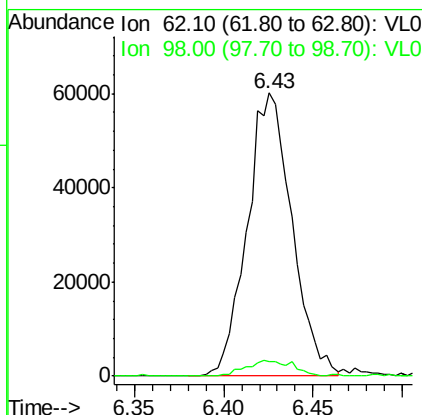
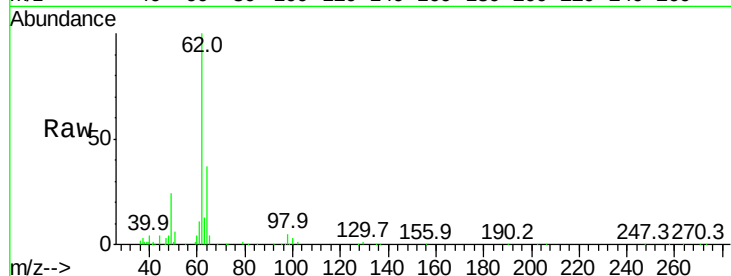




#37
 1,2-Dichloroethane
 Concen: 0.463 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

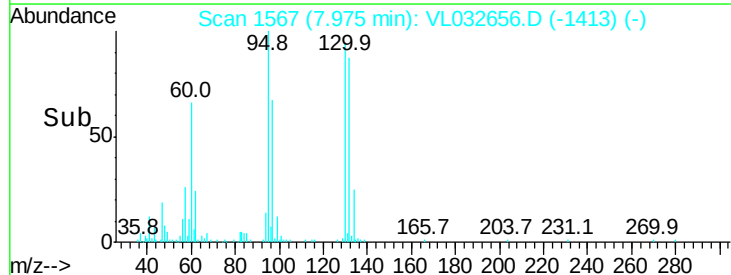
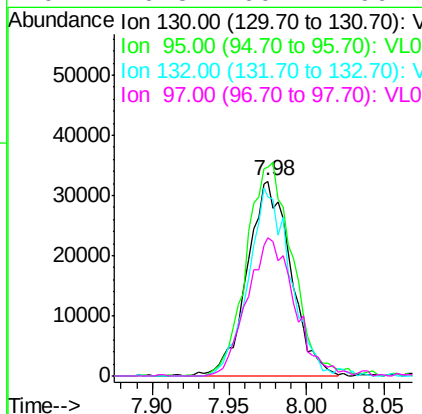
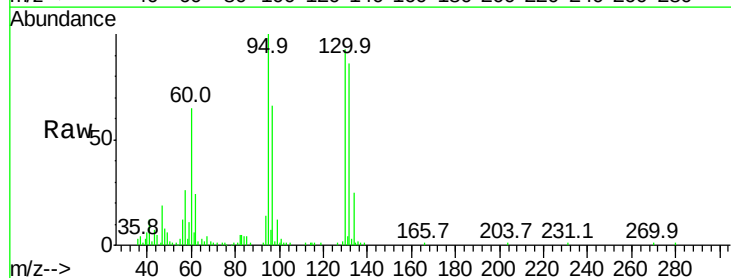
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

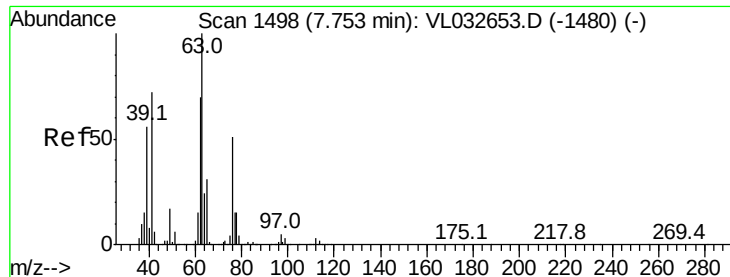
Tgt Ion: 62 Resp: 105465
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.4 6.6



#38
 Trichloroethene
 Concen: 0.507 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion: 130 Resp: 63273
 Ion Ratio Lower Upper
 130 100
 95 106.1 93.4 140.0
 132 92.4 76.5 114.7
 97 70.8 60.2 90.2





#39

1,2-Dichloropropane

Concen: 0.245 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. -0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

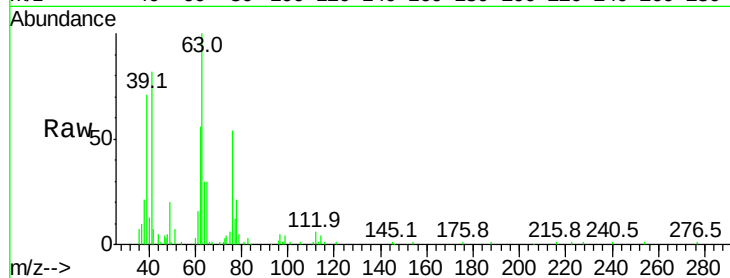
Tgt Ion: 63 Resp: 33045

Ion Ratio Lower Upper

63 100

41 79.8 56.2 84.4

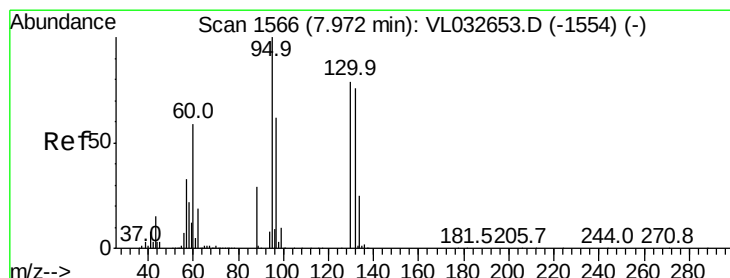
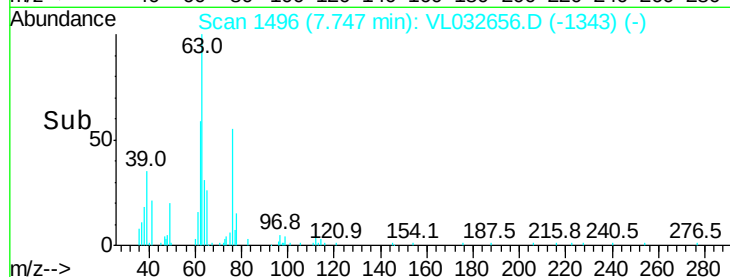
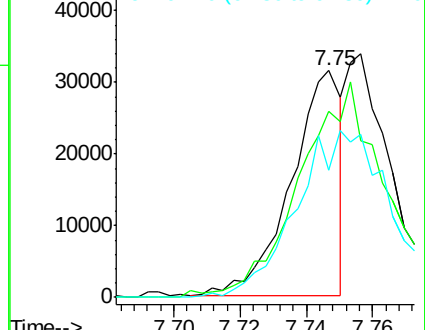
62 55.7 54.4 81.6



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.111 ppbv

RT: 8.01 min Scan# 1577

Delta R.T. 0.04 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion: 88 Resp: 5172

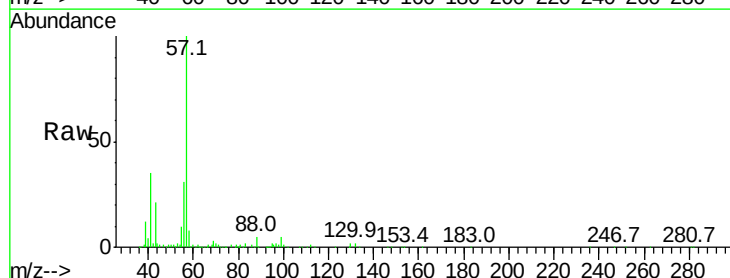
Ion Ratio Lower Upper

88 100

58 0.0 104.0 156.0#

43 0.0 0.0 0.0

57 5285.8 0.0 0.0#

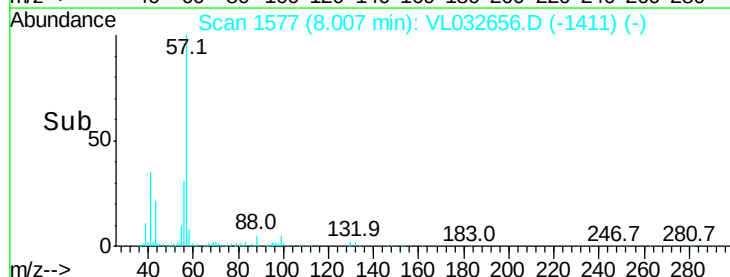
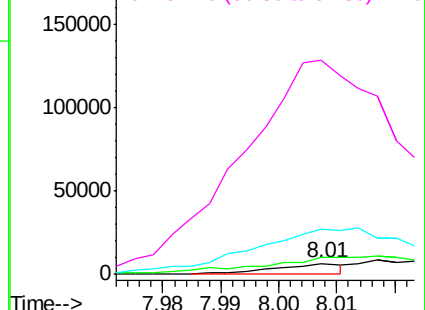


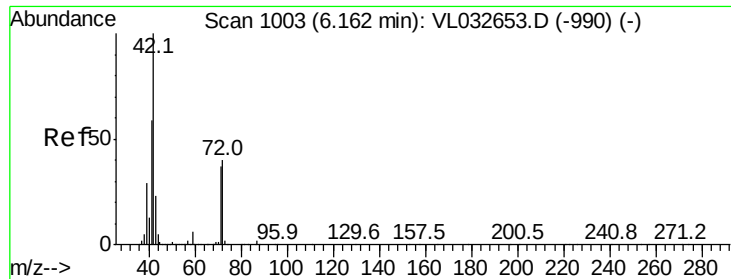
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

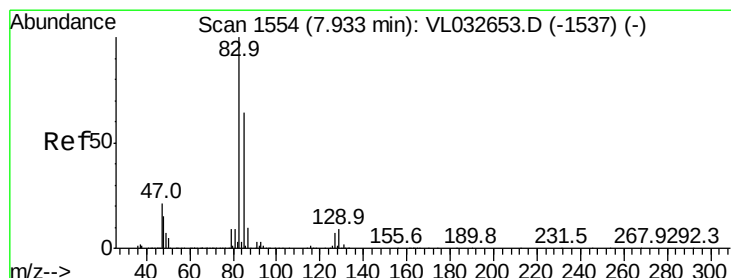
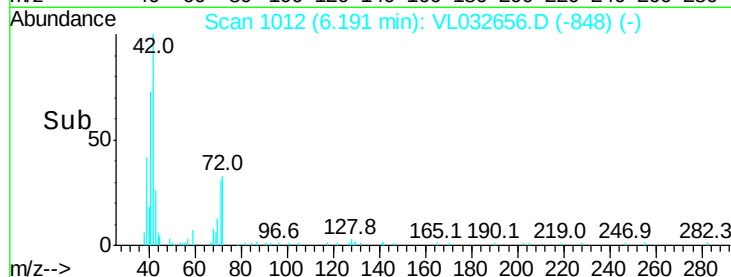
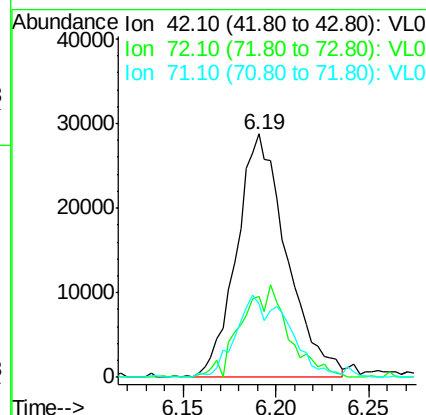
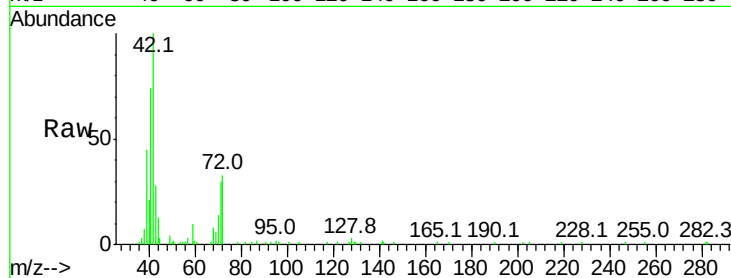




#41
Tetrahydrofuran
Concen: 0.447 ppbv
RT: 6.19 min Scan# 1012
Delta R.T. 0.03 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

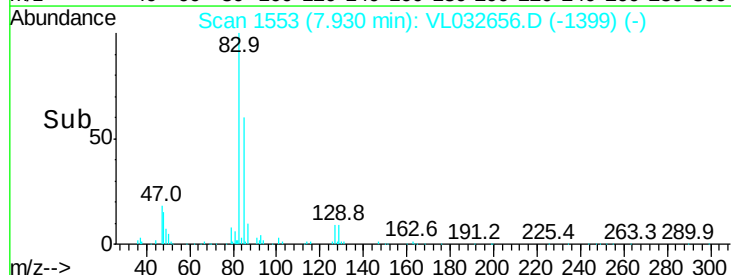
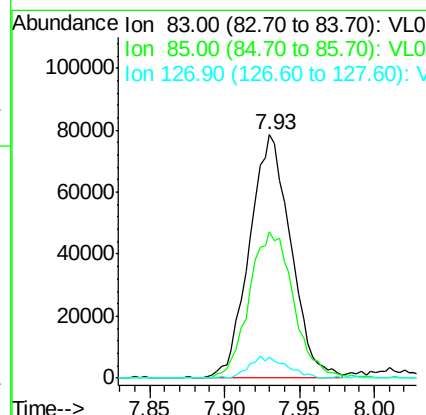
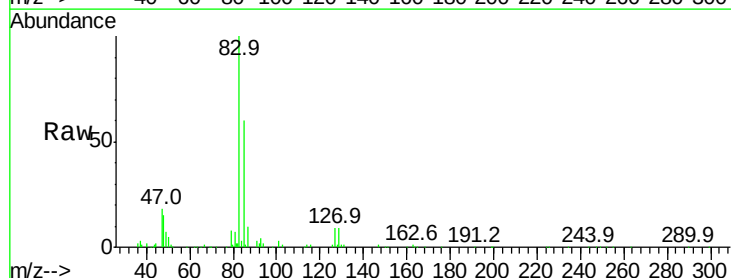
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

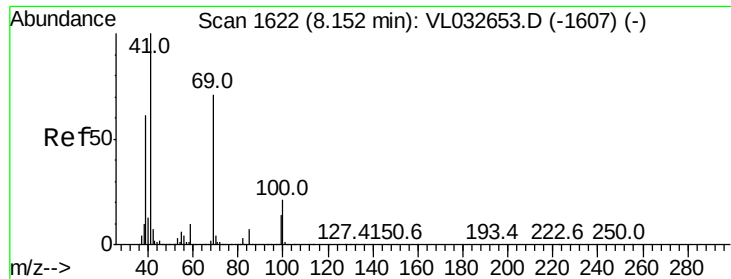
Tgt Ion: 42 Resp: 53874
Ion Ratio Lower Upper
42 100
72 36.2 32.4 48.6
71 36.6 31.3 46.9



#42
Bromodichloromethane
Concen: 0.482 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion: 83 Resp: 149736
Ion Ratio Lower Upper
83 100
85 60.3 52.4 78.6
127 8.7 6.1 9.1

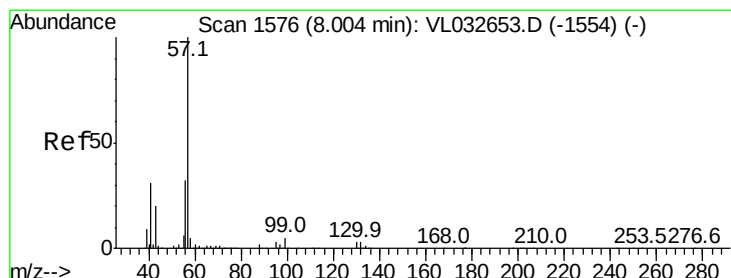
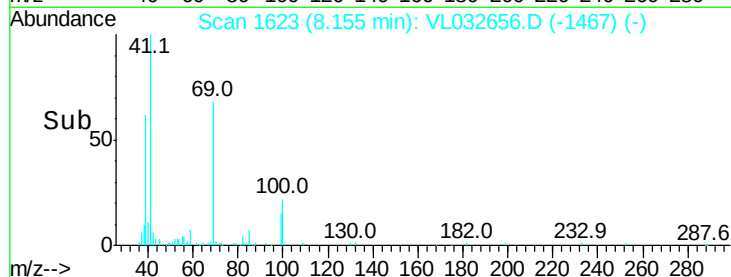
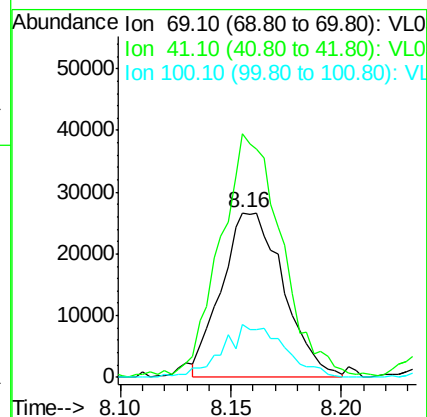
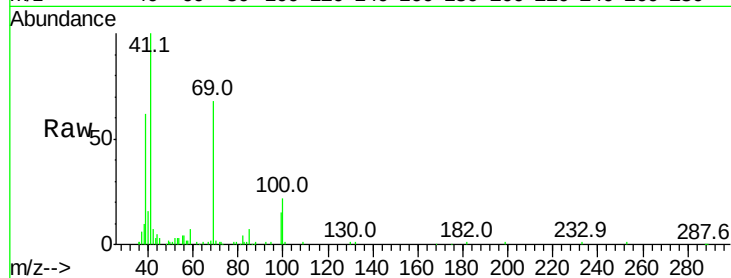




#43
Methyl Methacrylate
Concen: 0.399 ppbv
RT: 8.16 min Scan# 1623
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

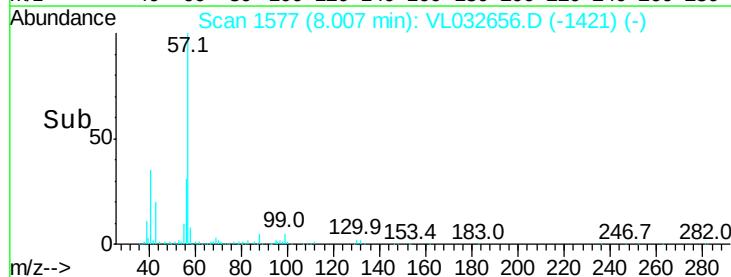
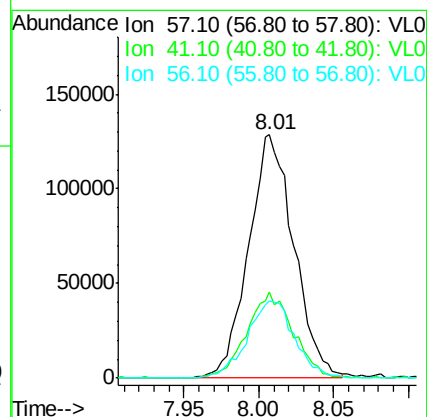
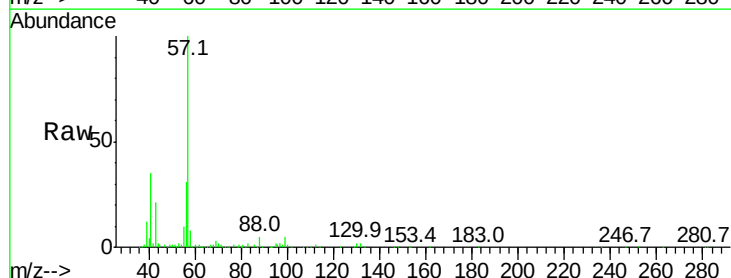
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

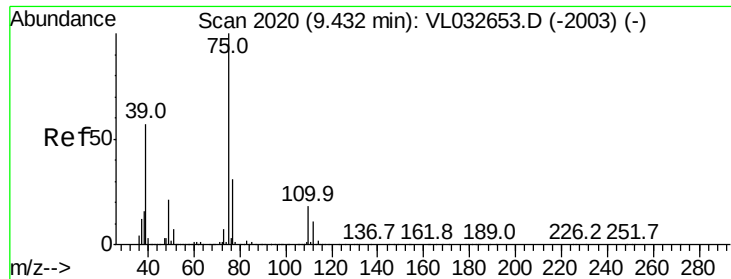
Tgt Ion: 69 Resp: 51397
Ion Ratio Lower Upper
69 100
41 149.7 113.2 169.8
100 32.6 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 0.460 ppbv
RT: 8.01 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion: 57 Resp: 270645
Ion Ratio Lower Upper
57 100
41 36.3 24.7 37.1
56 33.5 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 0.348 ppbv

RT: 9.43 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

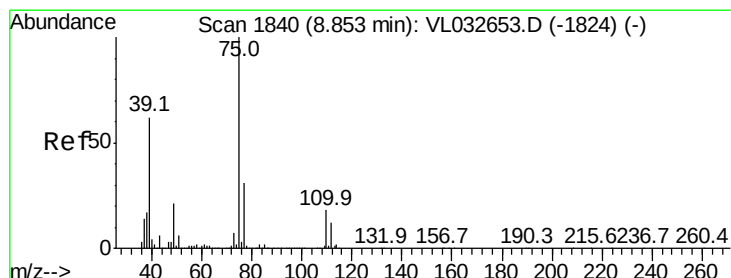
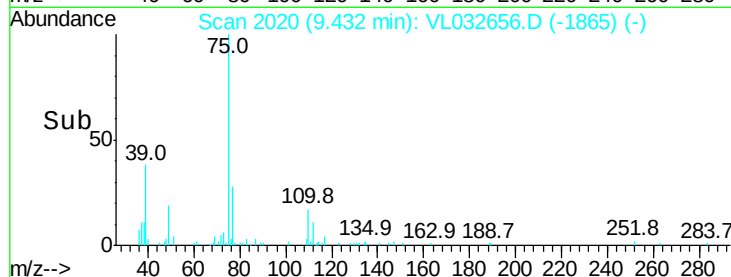
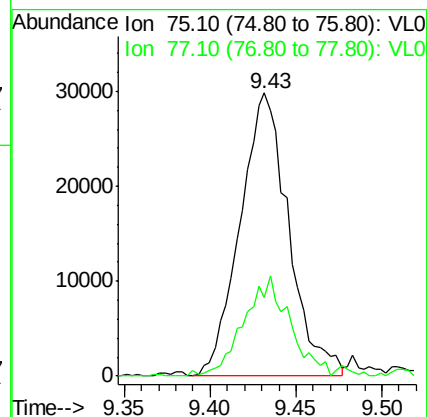
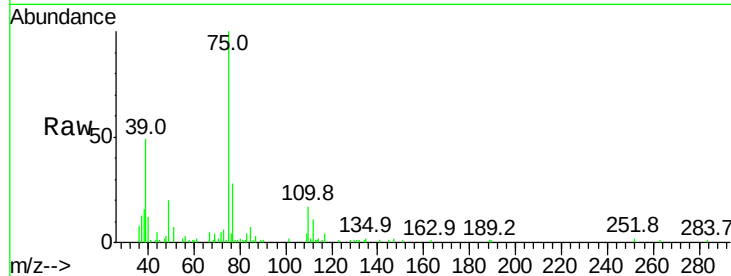
VSTDIC0.5

Tgt Ion: 75 Resp: 58614

Ion Ratio Lower Upper

75 100

77 27.9 25.3 37.9



#46

cis-1,3-Dichloropropene

Concen: 0.177 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

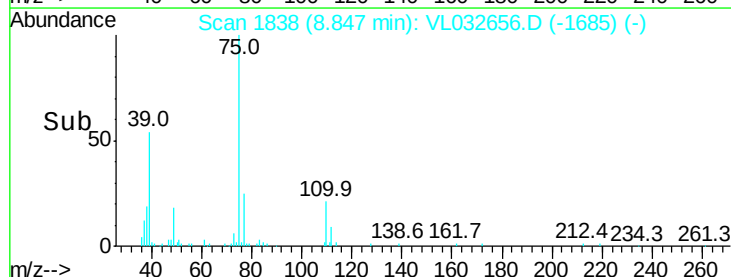
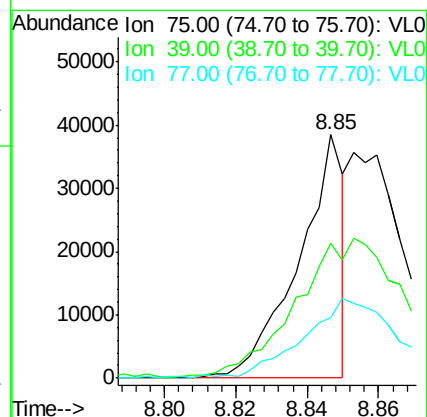
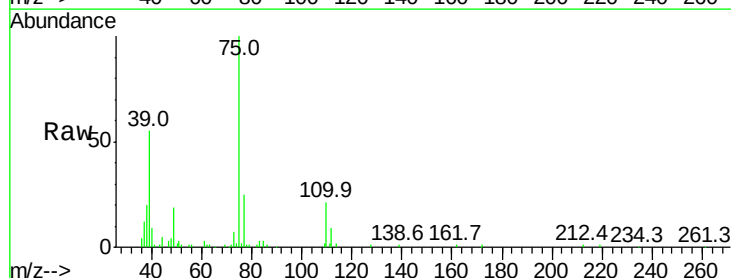
Tgt Ion: 75 Resp: 33853

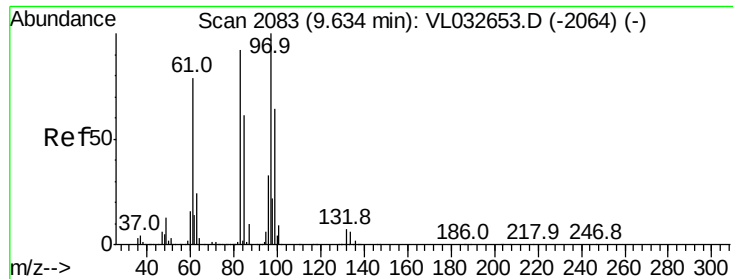
Ion Ratio Lower Upper

75 100

39 54.1 50.9 76.3

77 25.0 25.8 38.6#

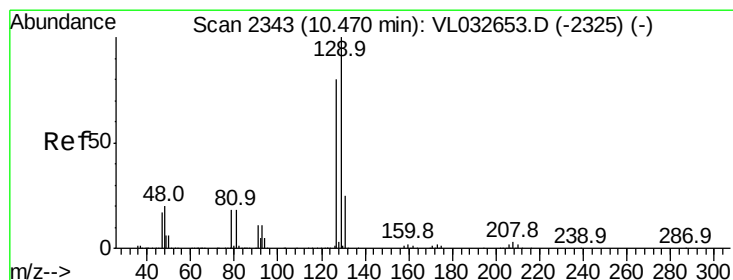
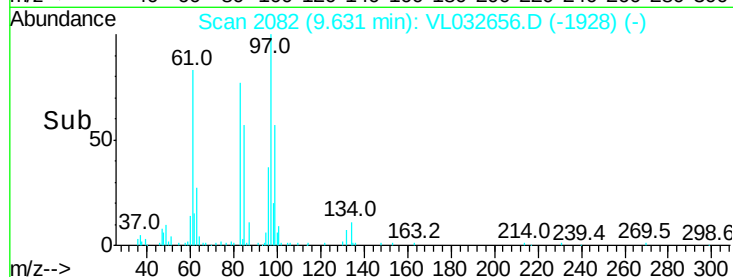
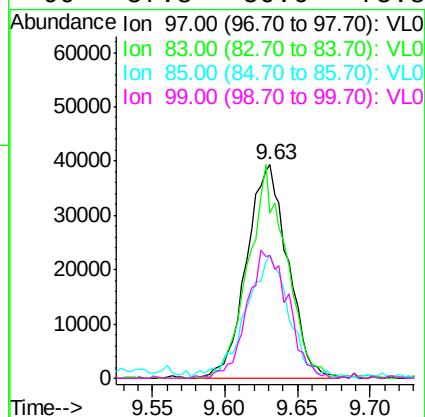
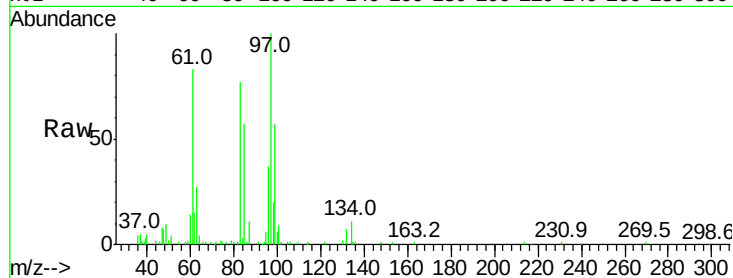




#47
 1,1,2-Trichloroethane
 Concen: 0.483 ppbv
 RT: 9.63 min Scan# 2082
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

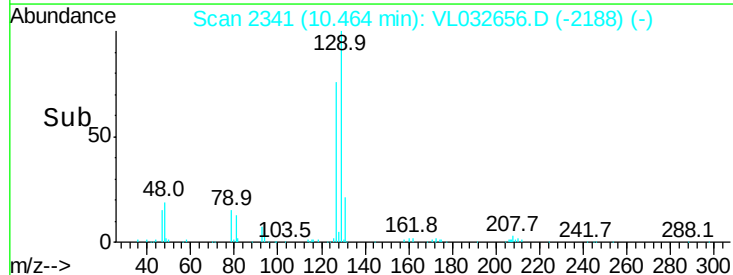
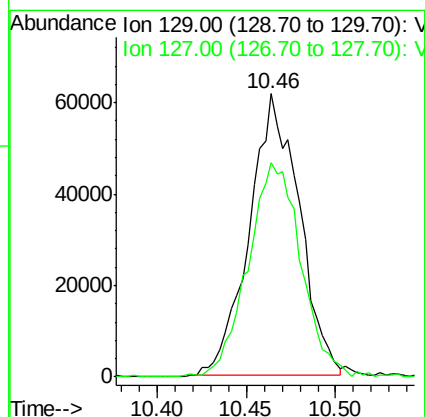
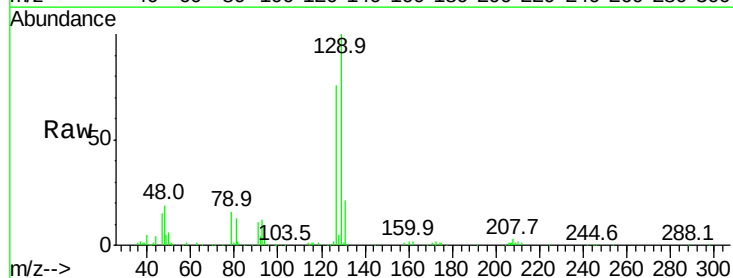
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

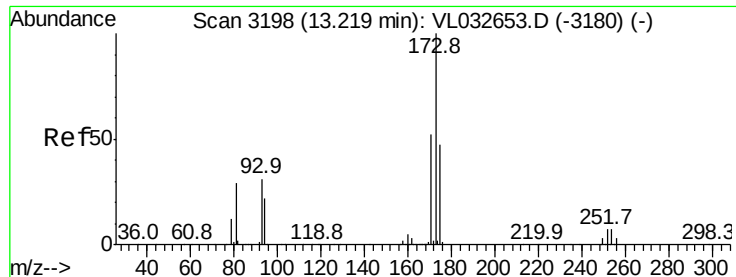
Tgt Ion: 97 Resp: 78001
 Ion Ratio Lower Upper
 97 100
 83 77.6 73.5 110.3
 85 57.0 45.8 68.6
 99 57.8 50.6 75.8



#48
 Dibromochloromethane
 Concen: 0.439 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion: 129 Resp: 120504
 Ion Ratio Lower Upper
 129 100
 127 80.9 39.1 117.5





#49

Bromoform

Concen: 0.236 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. -0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

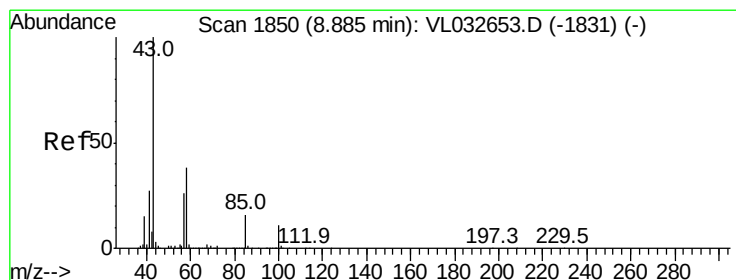
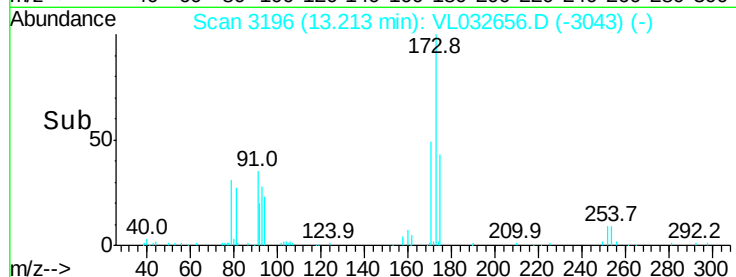
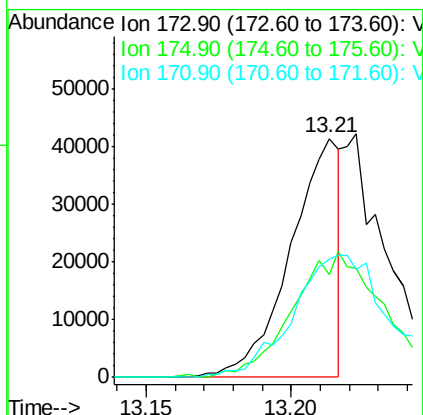
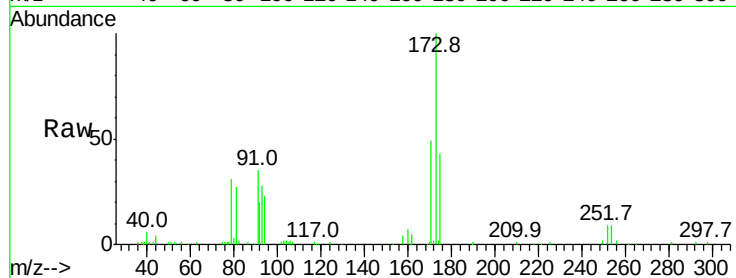
Tgt Ion:173 Resp: 49002

Ion Ratio Lower Upper

173 100

175 98.0 39.0 58.4#

171 98.7 42.2 63.2#



#50

4-Methyl-2-Pentanone

Concen: 0.452 ppbv

RT: 8.91 min Scan# 1858

Delta R.T. 0.03 min

Lab File: VL032656.D

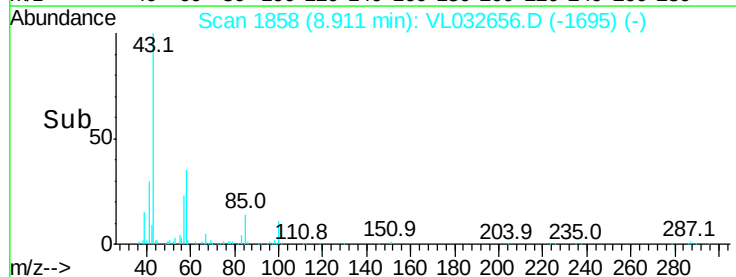
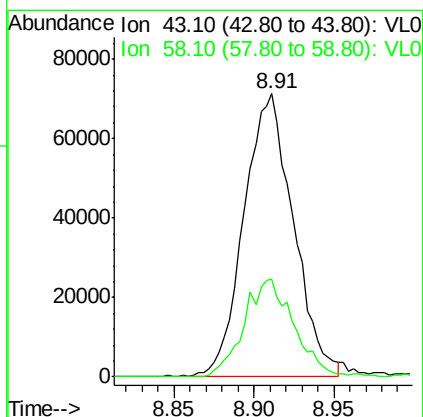
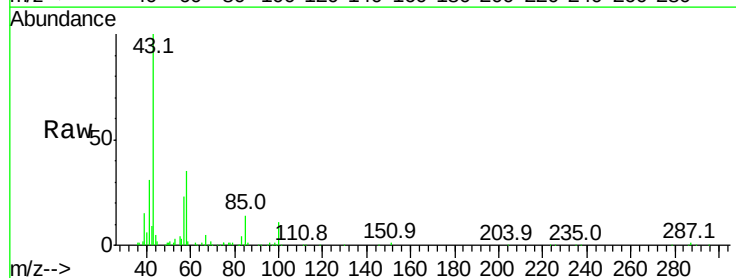
Acq: 18 Oct 2018 18:02

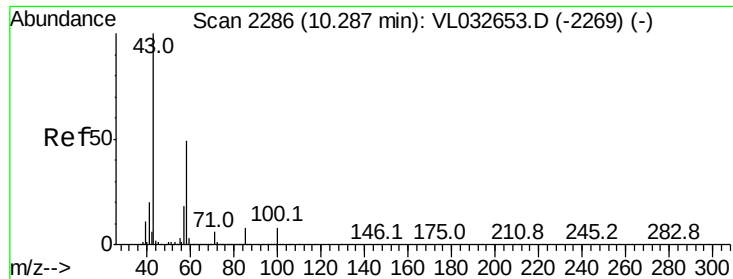
Tgt Ion: 43 Resp: 151309

Ion Ratio Lower Upper

43 100

58 34.9 29.7 44.5





#51

2-Hexanone

Concen: 0.220 ppbv

RT: 10.32 min Scan# 2296

Delta R.T. 0.03 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

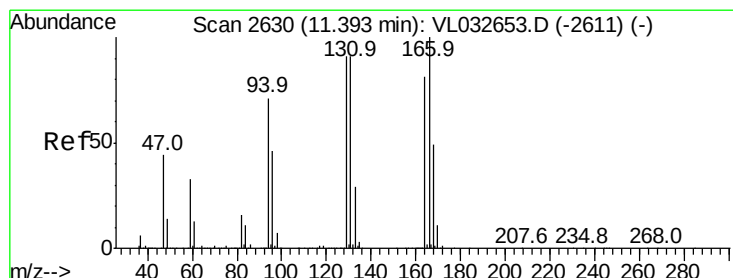
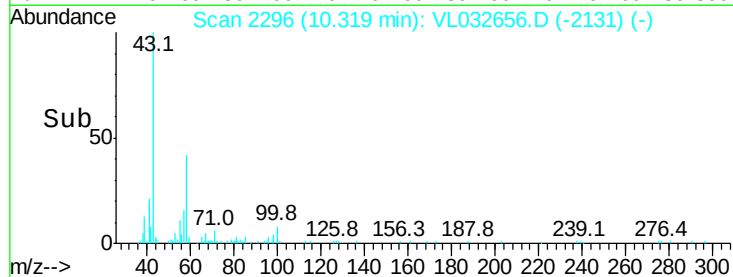
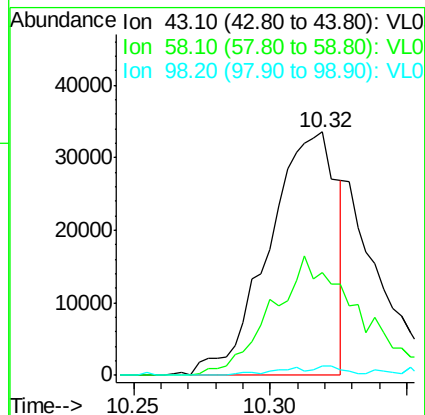
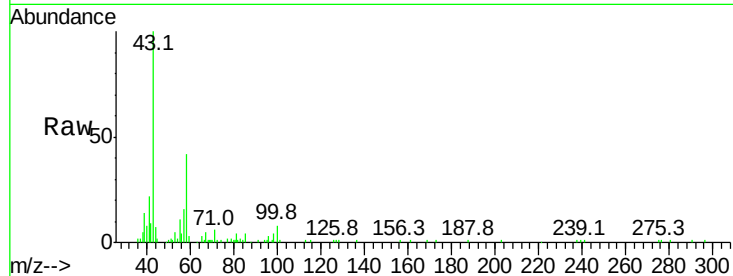
Tgt Ion: 43 Resp: 57868

Ion Ratio Lower Upper

43 100

58 66.6 40.4 60.6#

98 4.0 0.4 0.6#



#52

Tetrachloroethene

Concen: 0.318 ppbv

RT: 11.39 min Scan# 2629

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:164 Resp: 34812

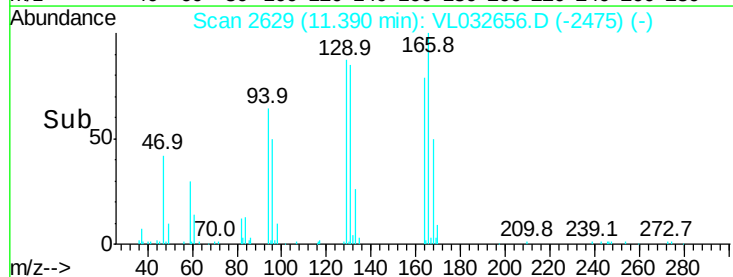
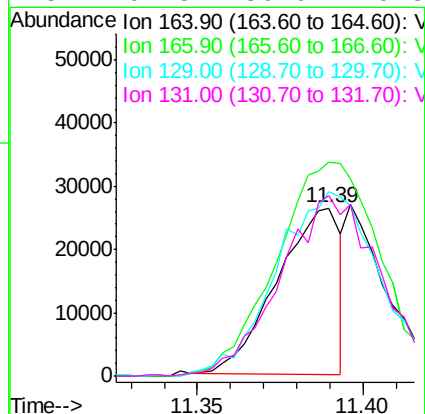
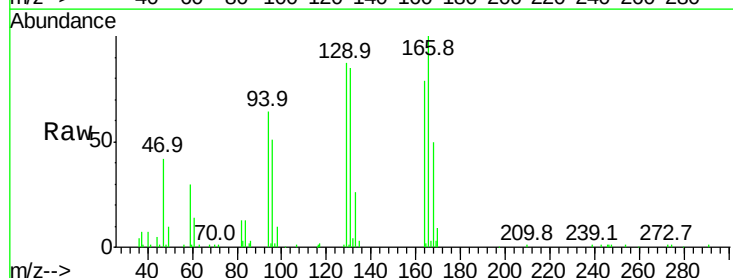
Ion Ratio Lower Upper

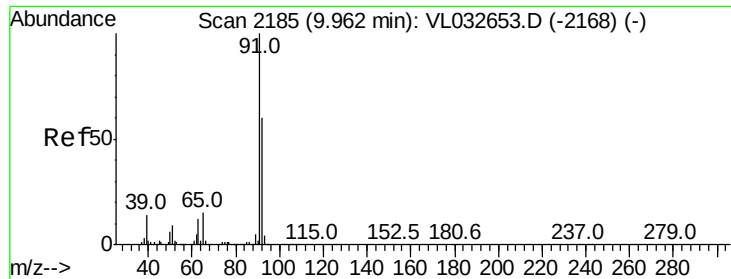
164 100

166 127.2 100.5 150.7

129 109.1 90.0 135.0

131 107.5 86.6 129.8





#53

Toluene

Concen: 0.210 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

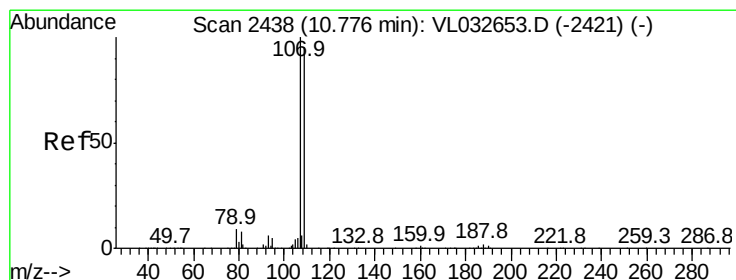
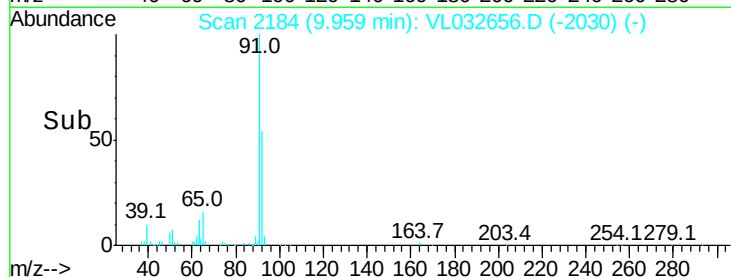
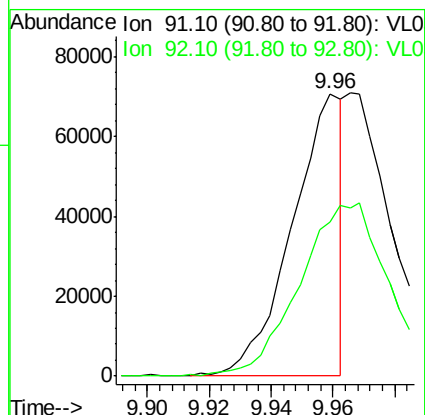
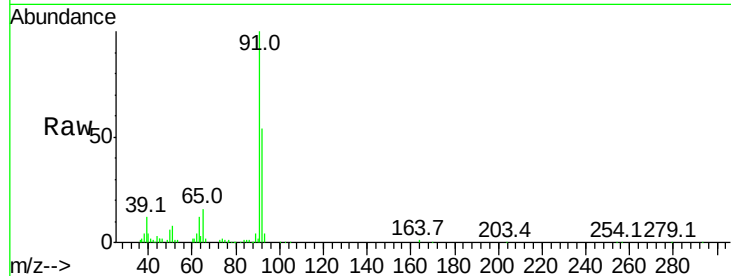
VSTDIC0.5

Tgt Ion: 91 Resp: 79456

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



#54

1,2-Dibromoethane

Concen: 0.254 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VL032656.D

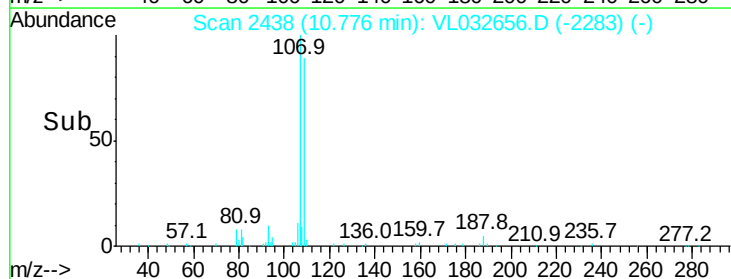
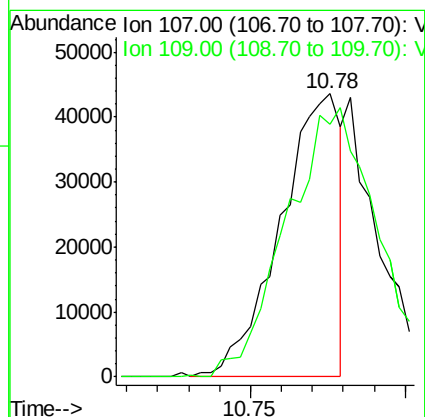
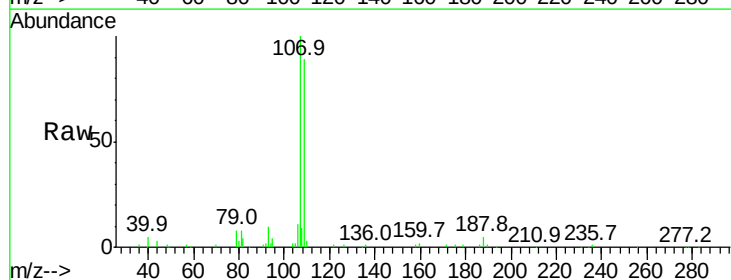
Acq: 18 Oct 2018 18:02

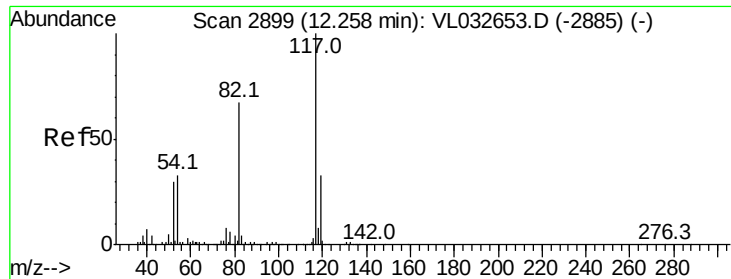
Tgt Ion: 107 Resp: 58713

Ion Ratio Lower Upper

107 100

109 88.6 75.3 112.9

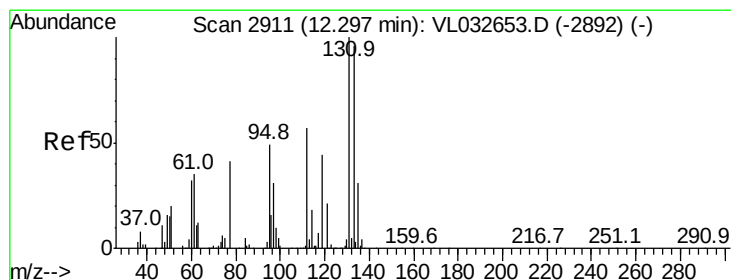
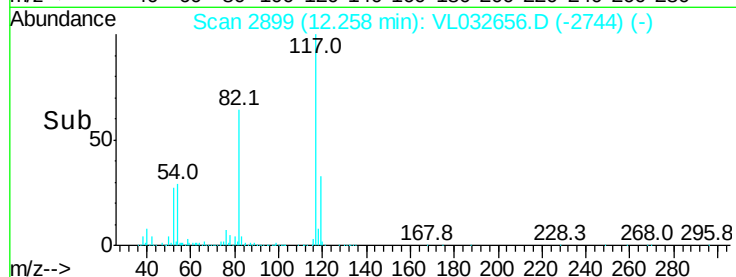
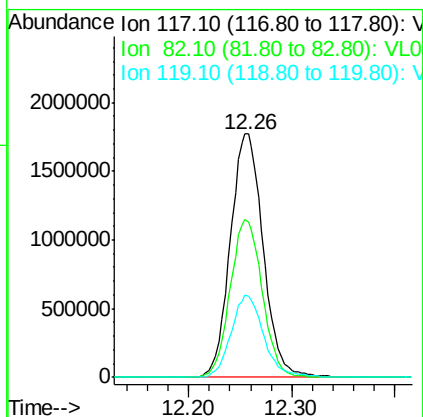
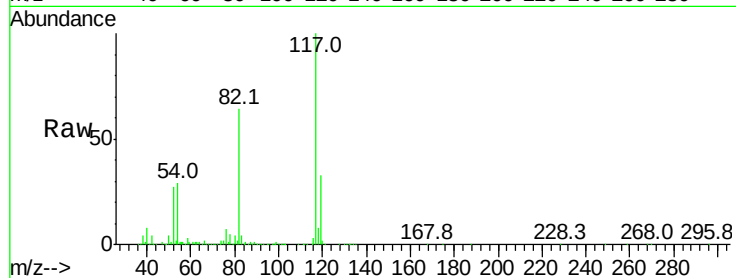




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

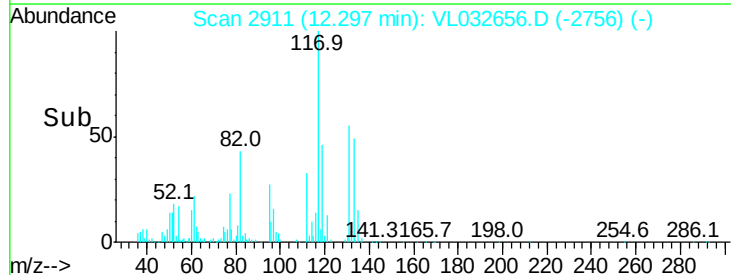
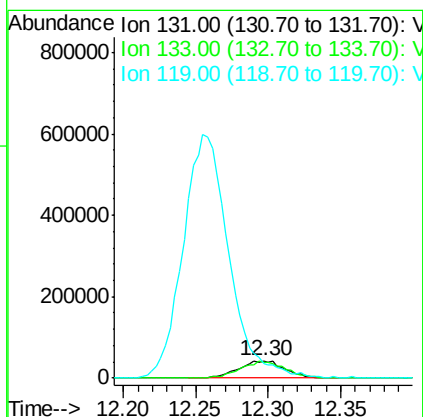
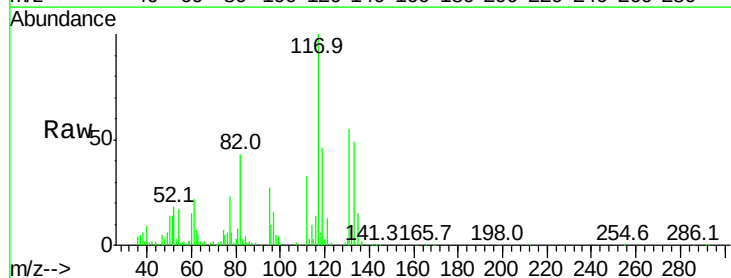
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

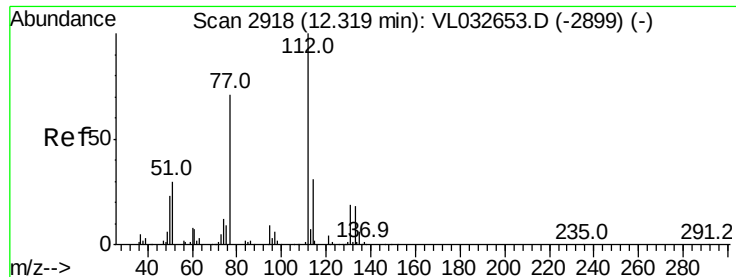
Tgt Ion:117 Resp: 3926748
Ion Ratio Lower Upper
117 100
82 63.4 52.7 79.1
119 33.7 26.7 40.1



#56
1,1,1,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion:131 Resp: 93535
Ion Ratio Lower Upper
131 100
133 95.2 75.4 113.2
119 1416.7 49.1 73.7#





#57

Chlorobenzene

Concen: 0.521 ppbv

RT: 12.32 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

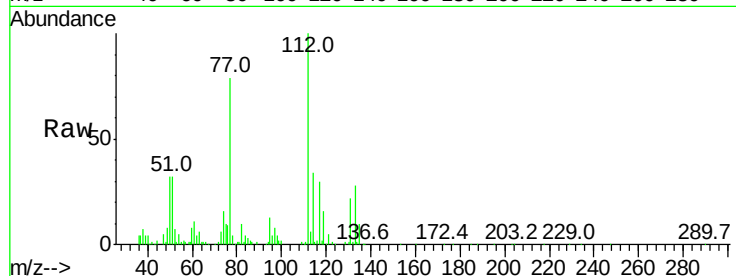
Tgt Ion: 112 Resp: 155576

Ion Ratio Lower Upper

112 100

77 78.1 56.8 85.2

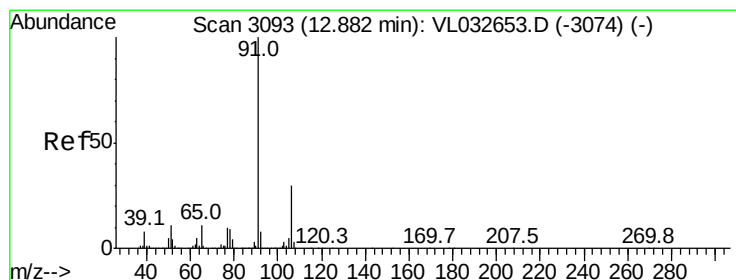
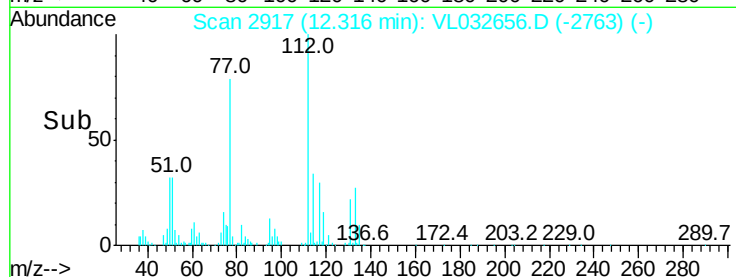
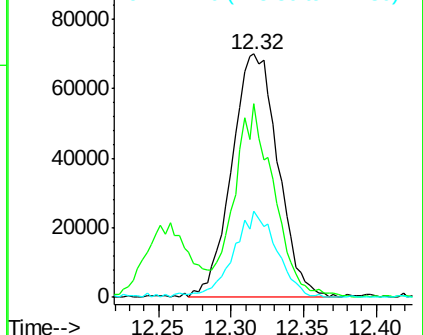
114 35.6 30.3 37.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.220 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. -0.00 min

Lab File: VL032656.D

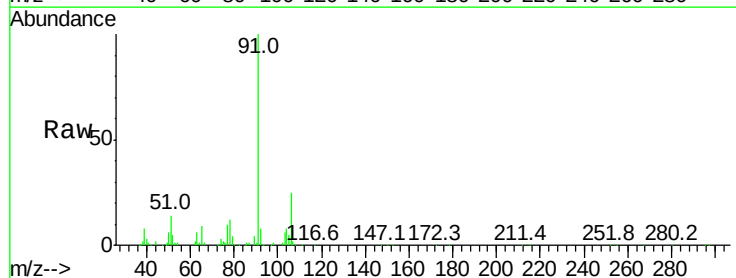
Acq: 18 Oct 2018 18:02

Tgt Ion: 91 Resp: 97173

Ion Ratio Lower Upper

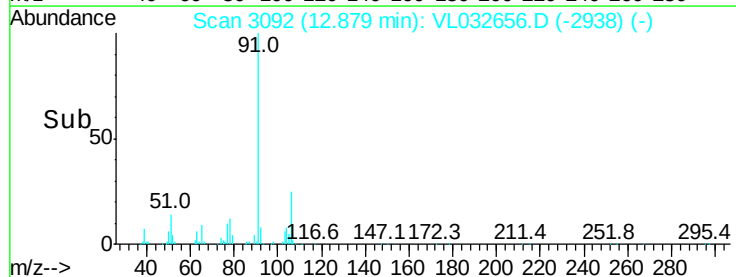
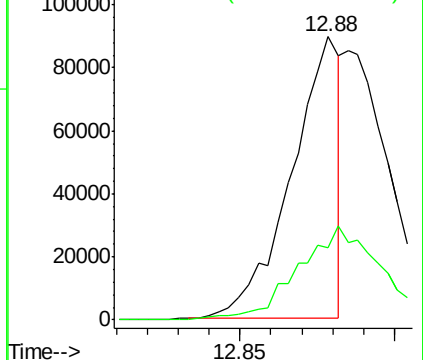
91 100

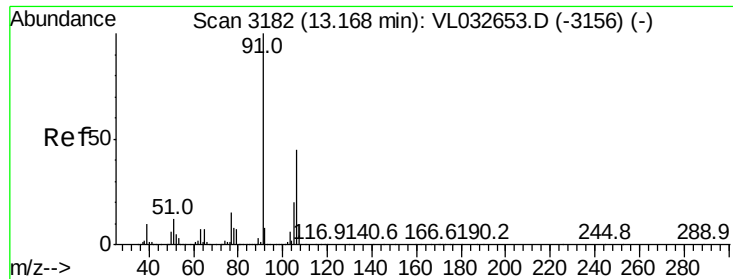
106 25.6 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.282 ppbv

RT: 13.17 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

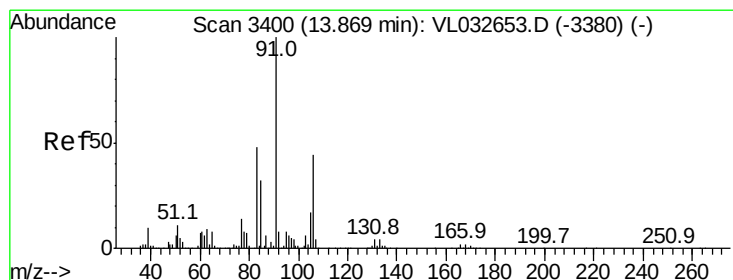
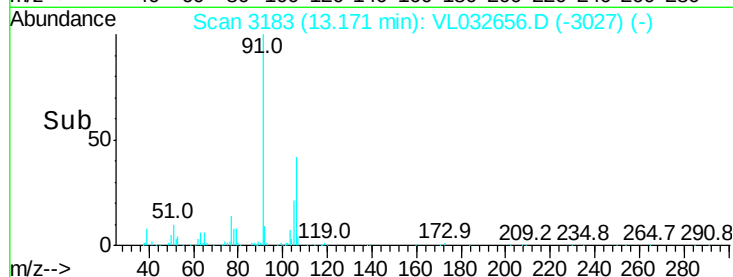
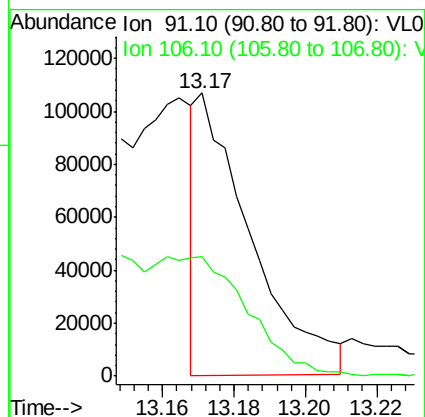
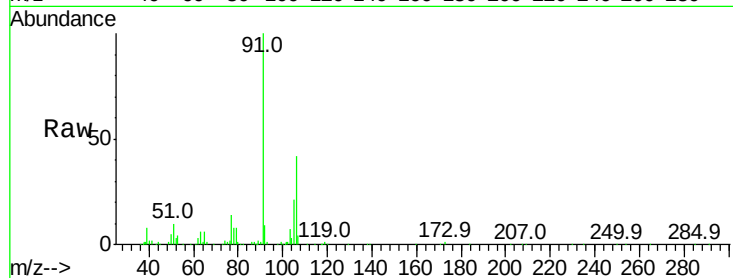
VSTDIC0.5

Tgt Ion: 91 Resp: 111202

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#



#60

o-Xylene

Concen: 0.464 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. -0.01 min

Lab File: VL032656.D

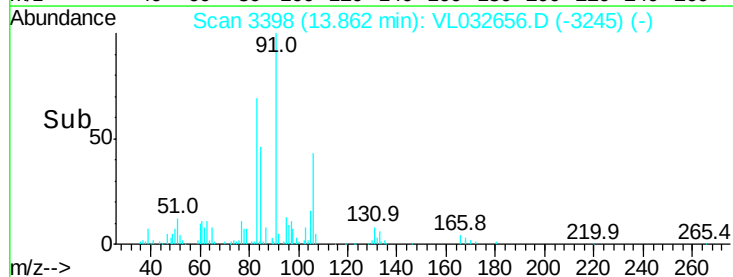
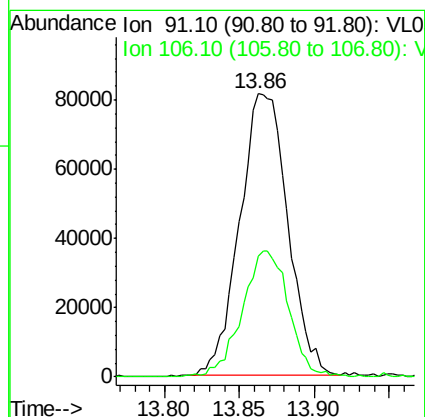
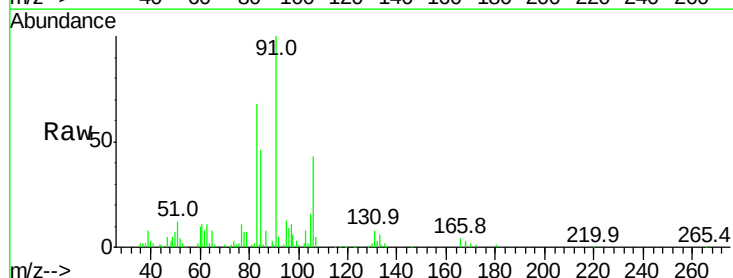
Acq: 18 Oct 2018 18:02

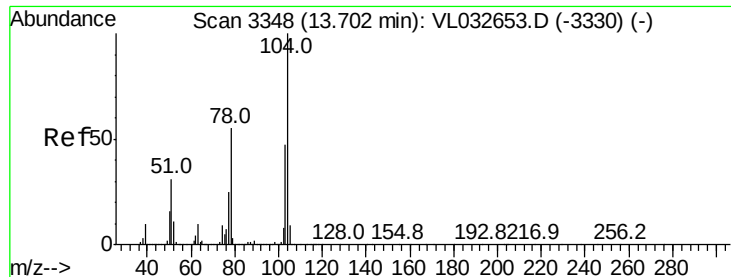
Tgt Ion: 91 Resp: 182108

Ion Ratio Lower Upper

91 100

106 43.4 22.1 66.1





#61

Styrene

Concen: 0.357 ppbv

RT: 13.70 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

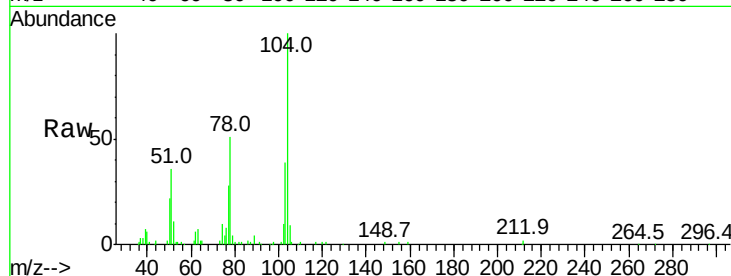
Tgt Ion:104 Resp: 84798

Ion Ratio Lower Upper

104 100

78 60.9 42.8 64.2

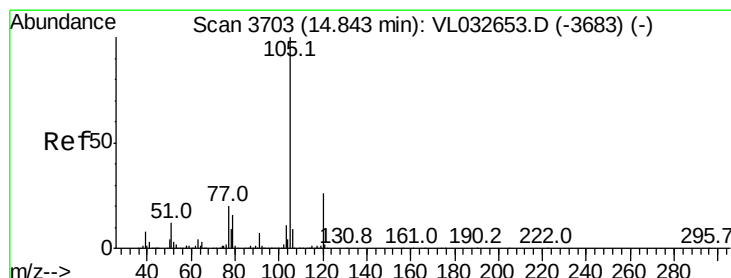
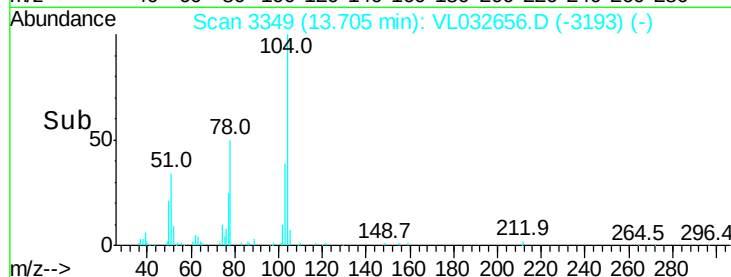
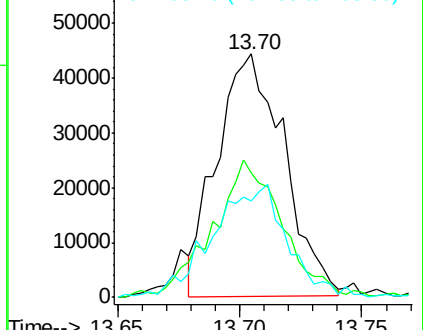
103 51.9 37.4 56.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.488 ppbv

RT: 14.85 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL032656.D

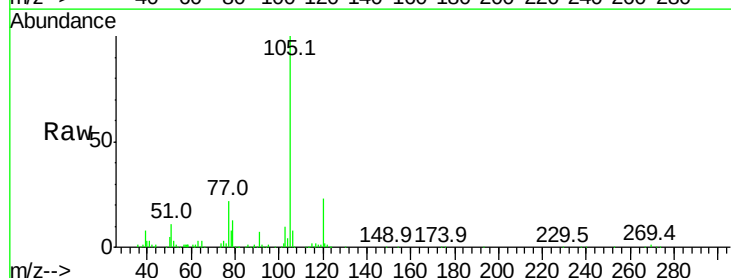
Acq: 18 Oct 2018 18:02

Tgt Ion:105 Resp: 272752

Ion Ratio Lower Upper

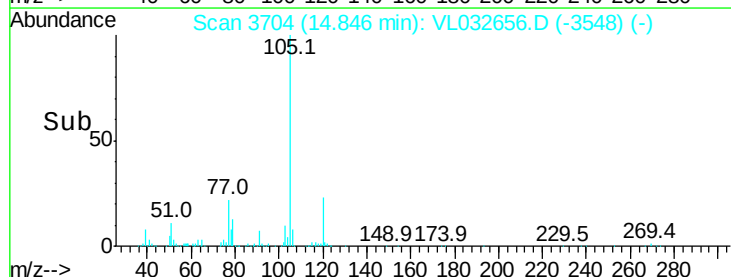
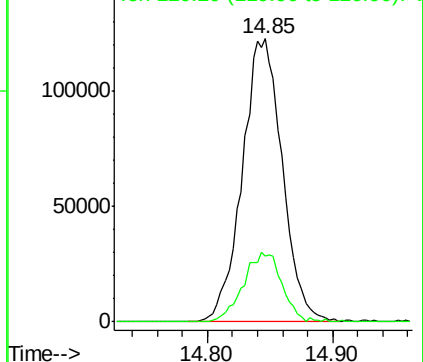
105 100

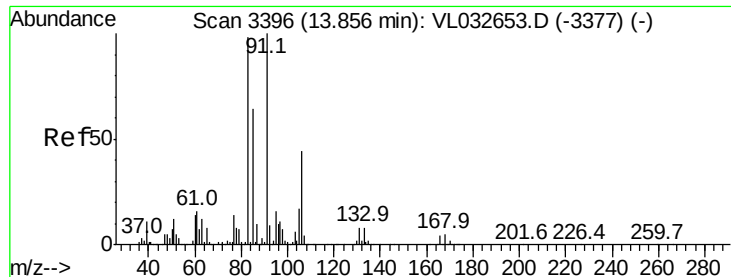
120 23.7 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.467 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

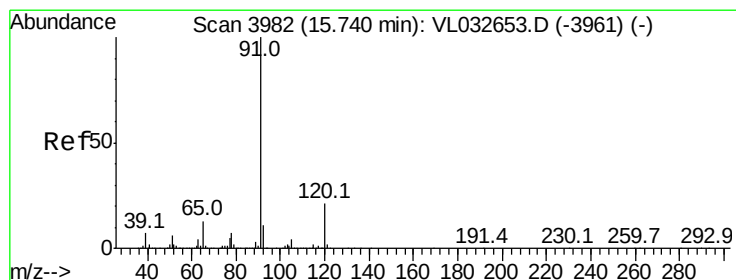
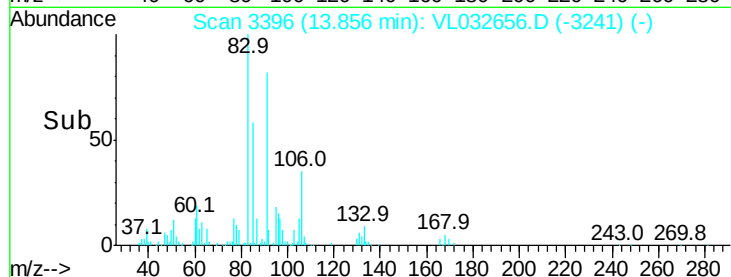
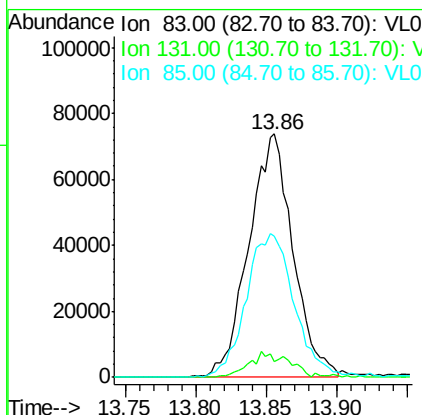
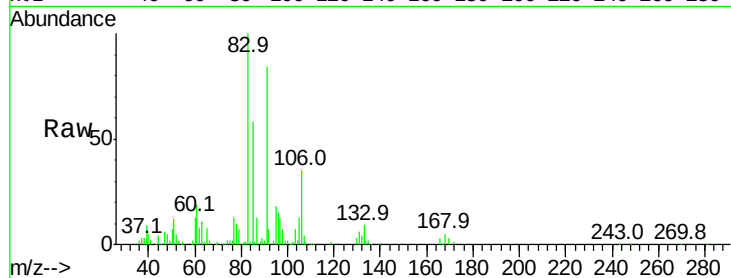
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	83	Resp:	161707
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.3	12.9
85	65.1	32.3	96.9



#64

n-propylbenzene

Concen: 0.437 ppbv

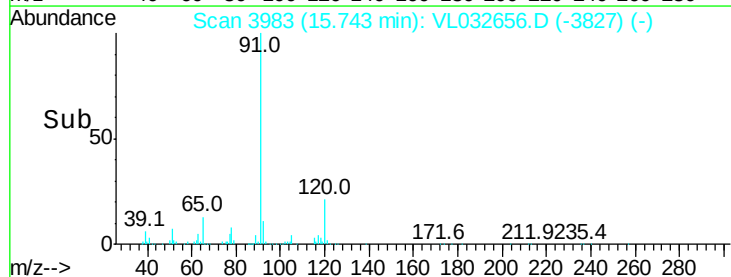
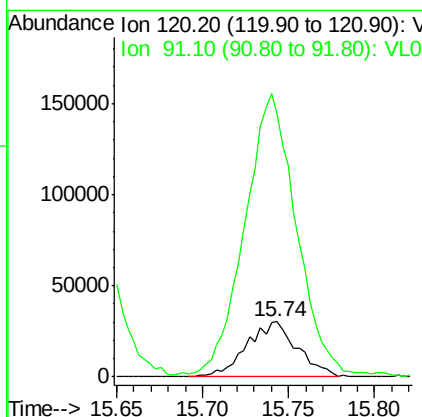
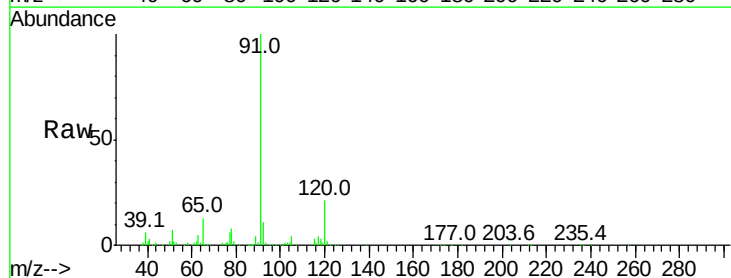
RT: 15.74 min Scan# 3983

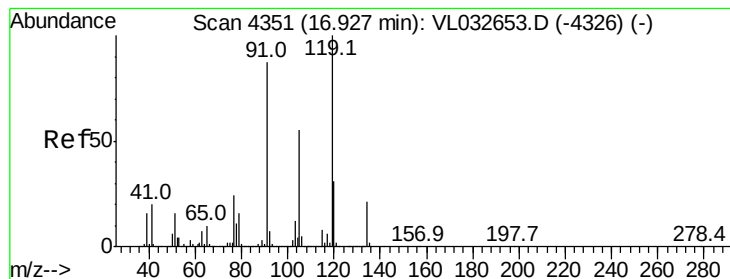
Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:	120	Resp:	61824
Ion	Ratio	Lower	Upper
120	100		
91	534.9	390.2	585.2





#65

tert-Butylbenzene

Concen: 0.455 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

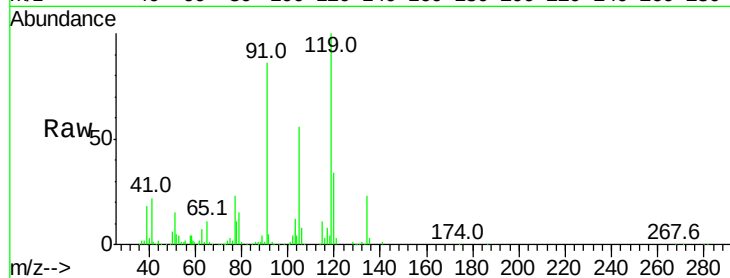
Tgt Ion: 119 Resp: 215938

Ion Ratio Lower Upper

119 100

91 86.6 67.8 101.8

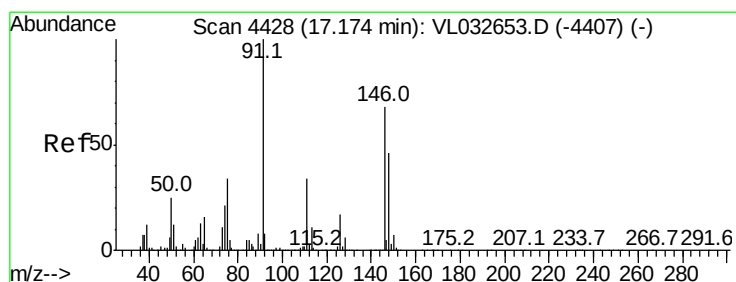
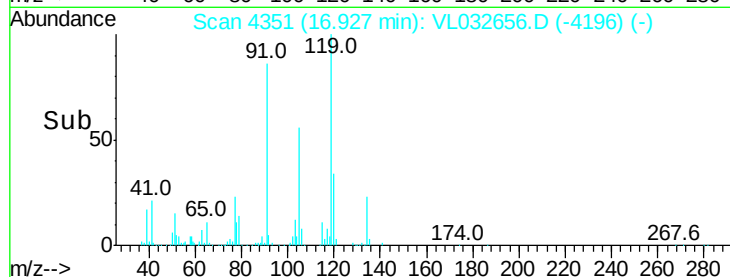
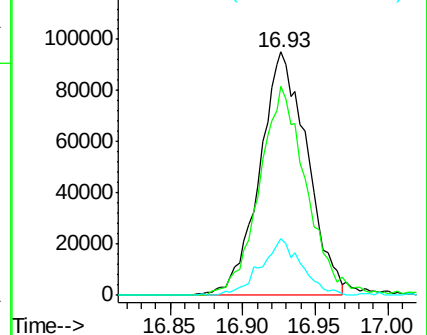
134 20.1 15.8 23.8



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.363 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

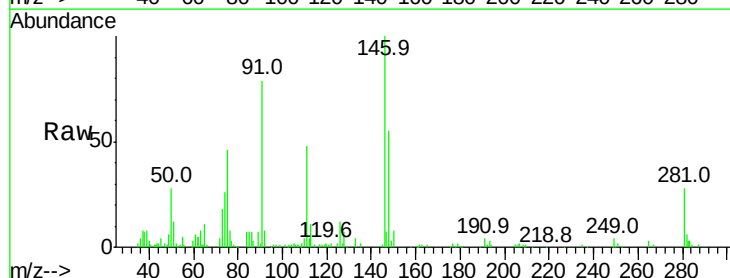
Tgt Ion: 91 Resp: 97171

Ion Ratio Lower Upper

91 100

126 20.5 13.9 20.9

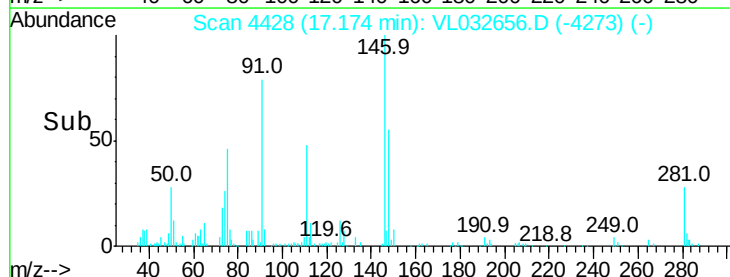
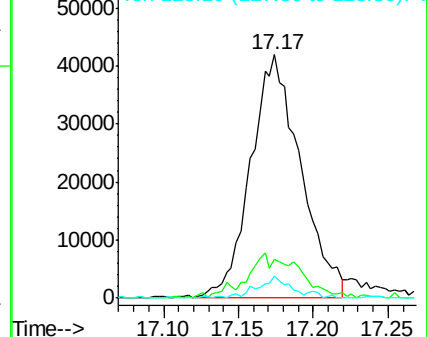
128 6.5 4.3 6.5#

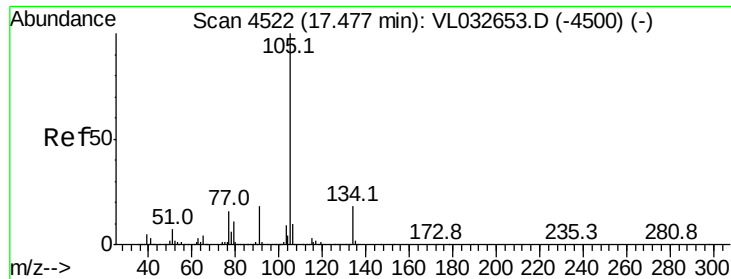


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.197 ppbv

RT: 17.48 min Scan# 4523

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

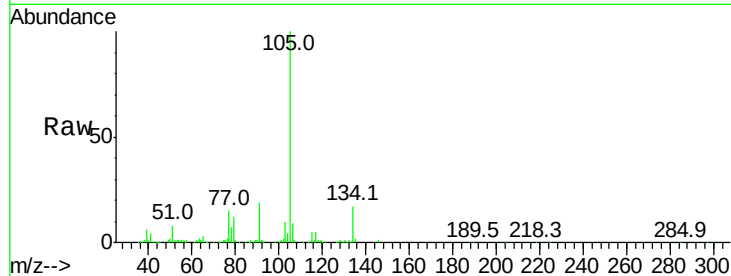
VSTDIC0.5

Tgt Ion: 105 Resp: 140612

Ion Ratio Lower Upper

105 100

134 38.8 14.2 21.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.48

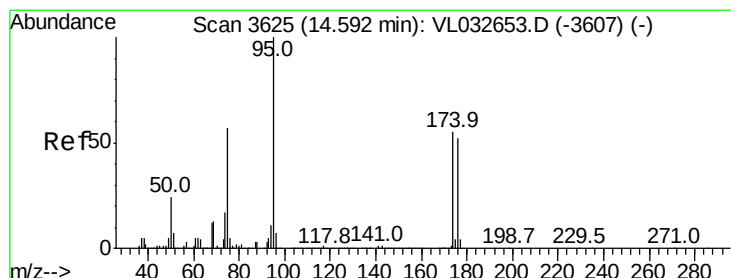
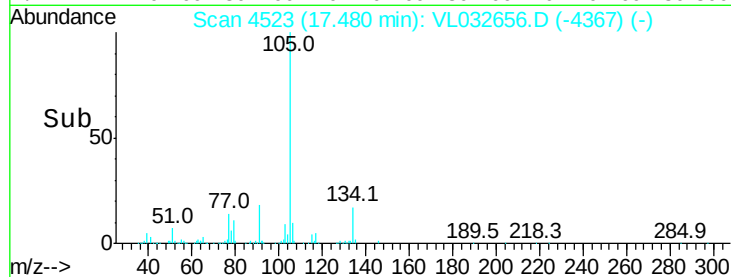
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.003 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

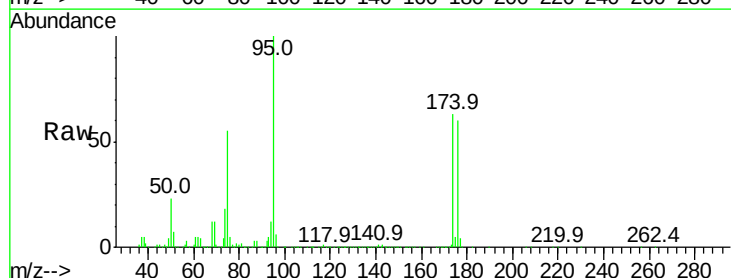
Tgt Ion: 95 Resp: 2957475

Ion Ratio Lower Upper

95 100

174 63.5 46.0 69.0

175 4.5 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.59

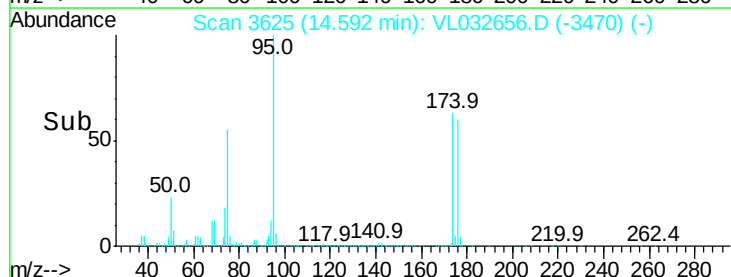
1500000

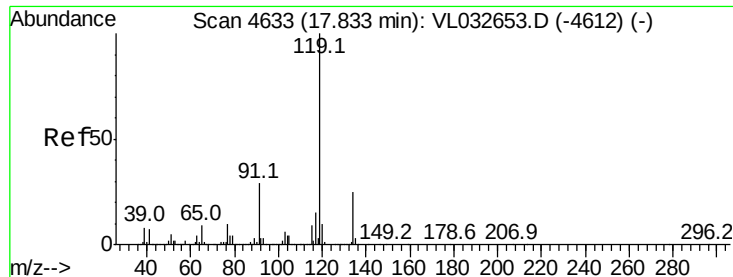
1000000

500000

0

Time-->

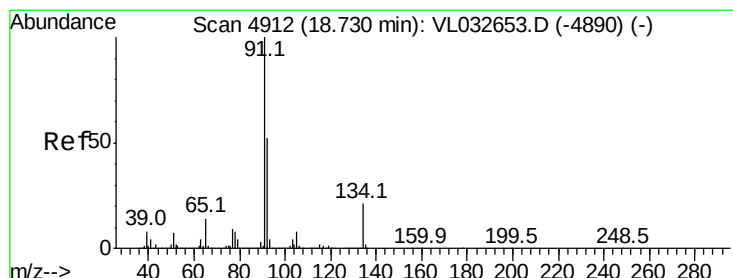
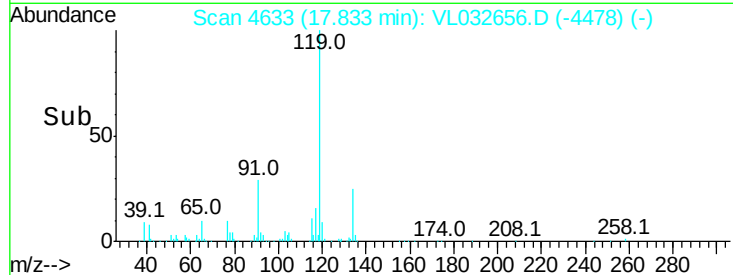
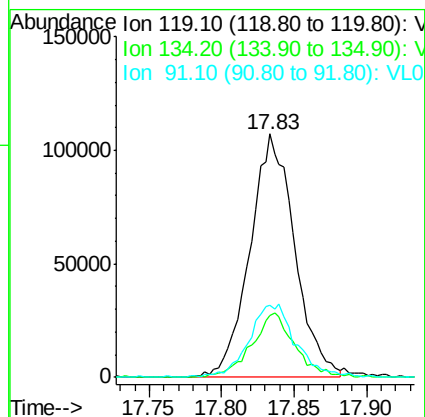
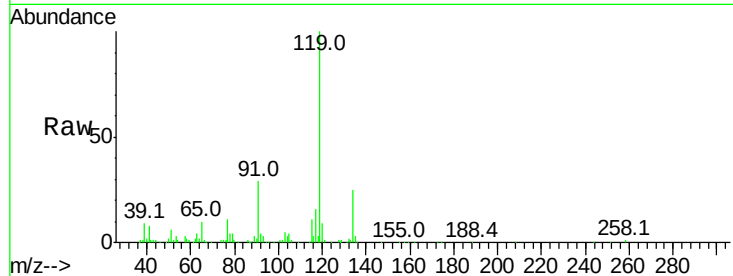




#69
 p-Isopropyltoluene
 Concen: 0.425 ppbv
 RT: 17.83 min Scan# 4633
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

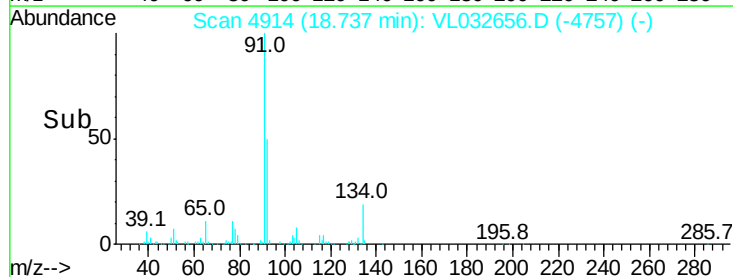
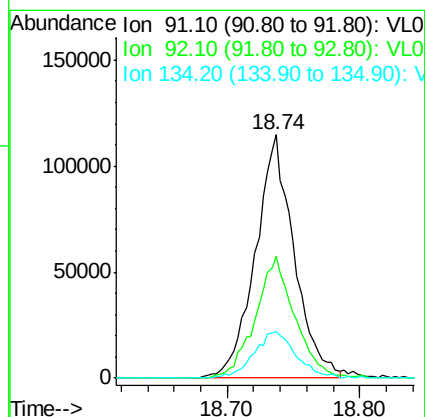
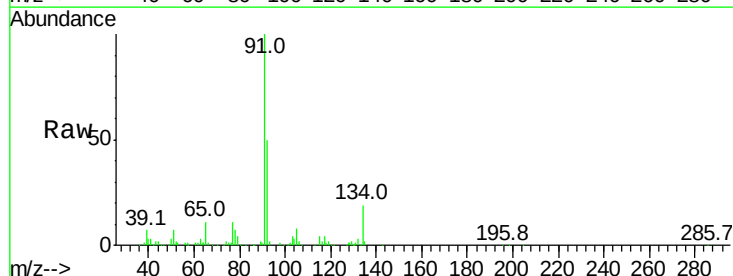
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

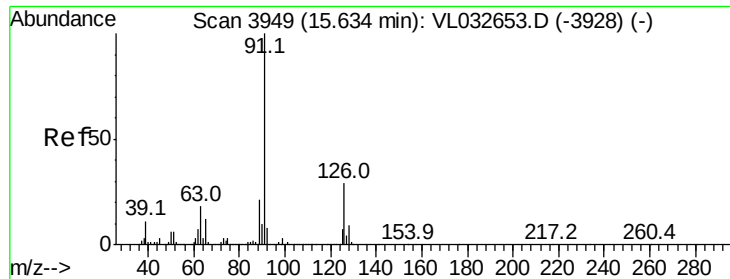
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.2	30.2
91	31.8	24.0	36.0



#70
 n-Butylbenzene
 Concen: 0.394 ppbv
 RT: 18.74 min Scan# 4914
 Delta R.T. 0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.3	43.0	64.4
134	20.9	17.0	25.6





#71

2-Chlorotoluene

Concen: 0.413 ppbv

RT: 15.64 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

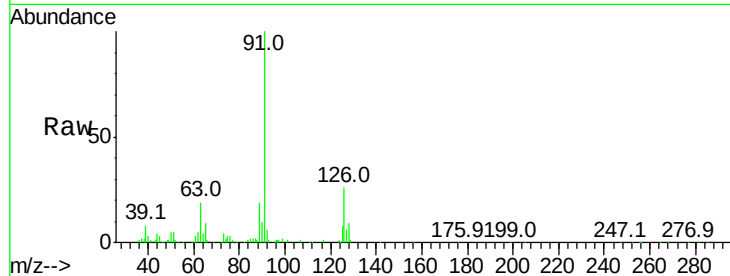
VSTDIC0.5

Tgt Ion: 91 Resp: 170637

Ion Ratio Lower Upper

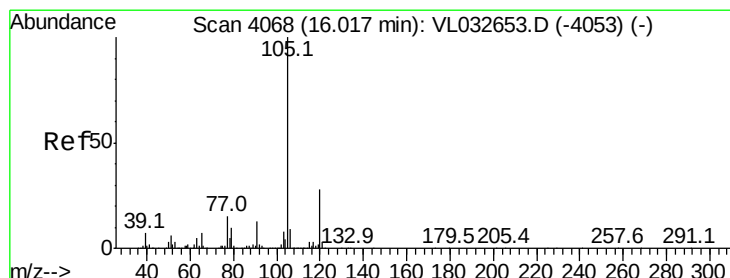
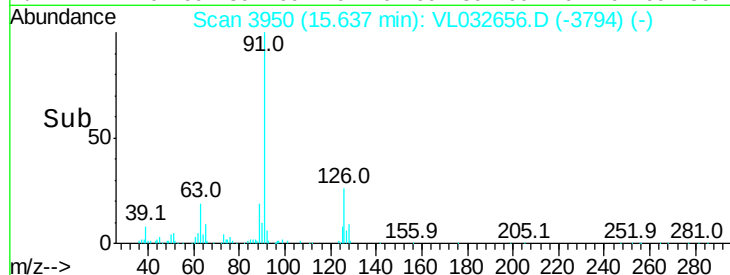
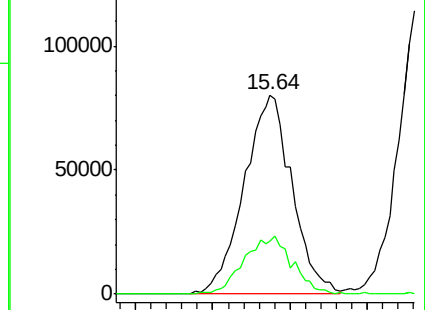
91 100

126 29.9 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.400 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion: 105 Resp: 169436

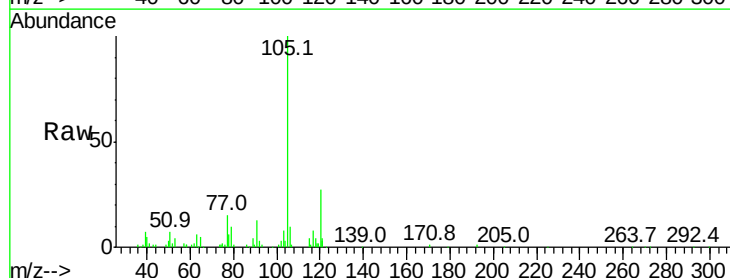
Ion Ratio Lower Upper

105 100

120 29.9 23.7 35.5

91 16.2 10.4 15.6#

77 15.5 11.4 17.2

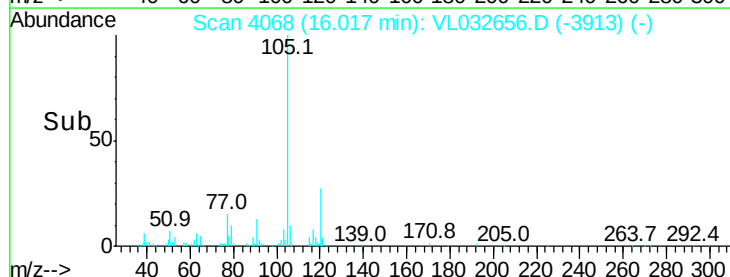
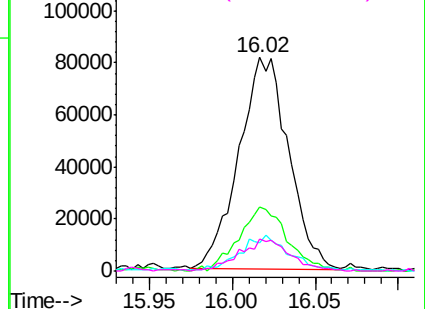


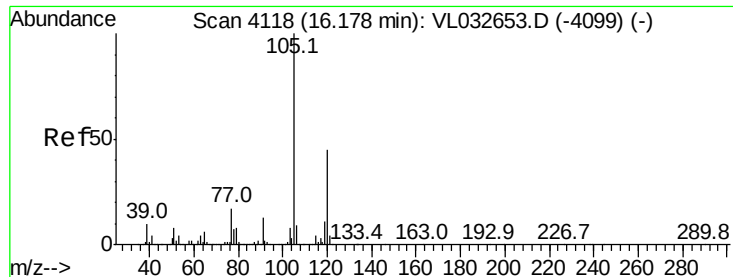
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.430 ppbv

RT: 16.18 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

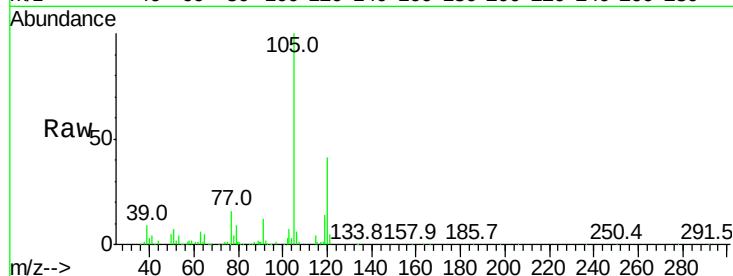
VSTDIC0.5

Tgt Ion:105 Resp: 181253

Ion Ratio Lower Upper

105 100

120 40.9 35.4 53.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.18

80000

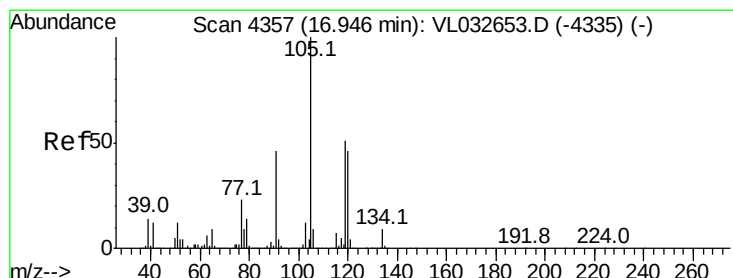
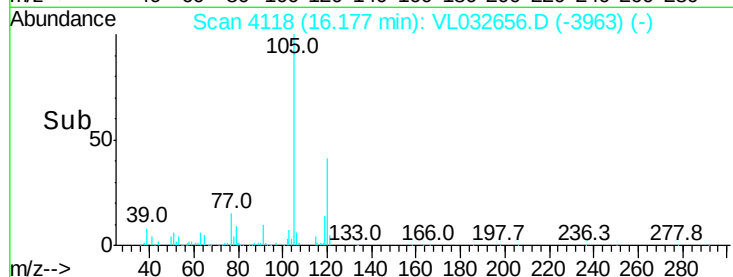
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.442 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:105 Resp: 205283

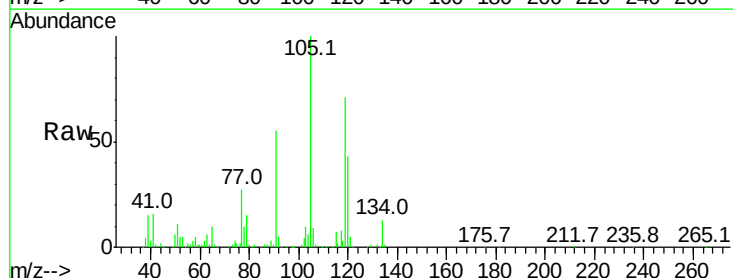
Ion Ratio Lower Upper

105 100

120 43.4 35.8 53.8

91 53.9 33.2 49.8#

77 26.4 16.2 24.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.94

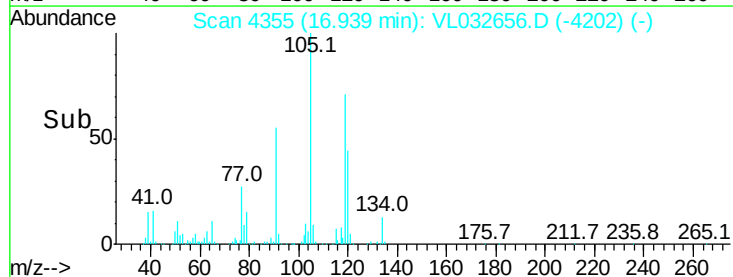
150000

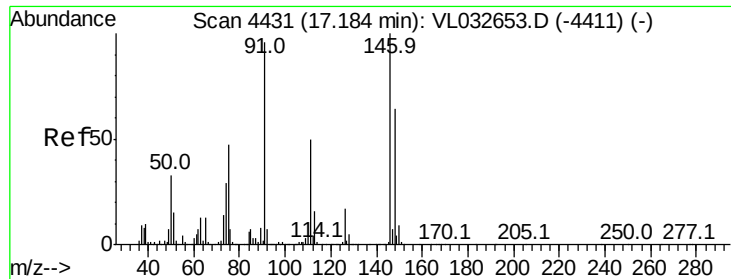
100000

50000

0

Time-->

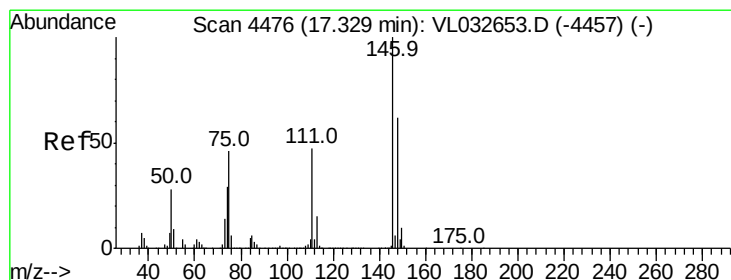
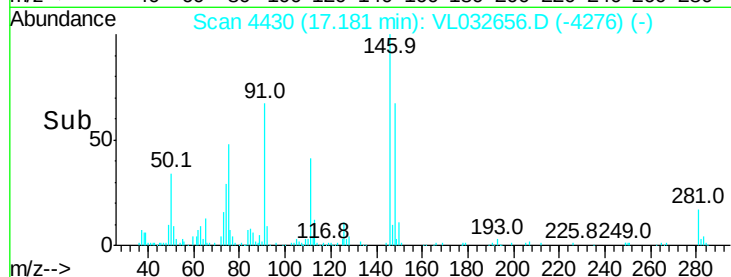
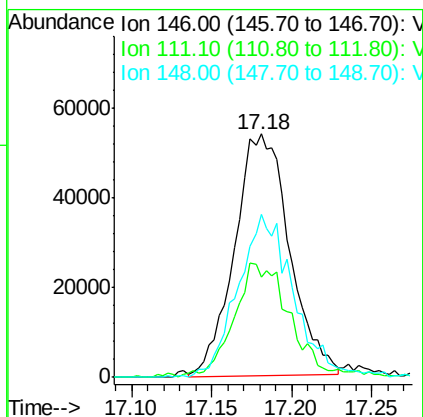
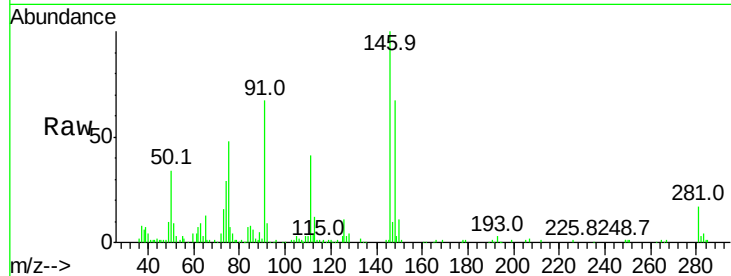




#75
 1,3-Dichlorobenzene
 Concen: 0.470 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

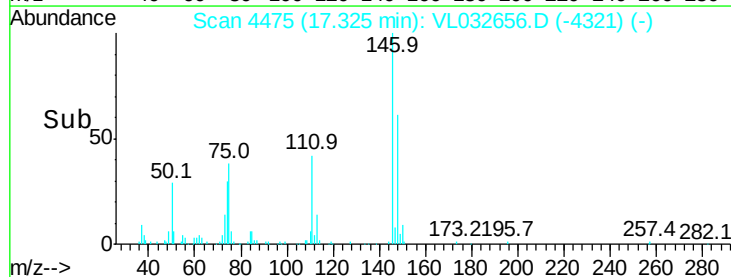
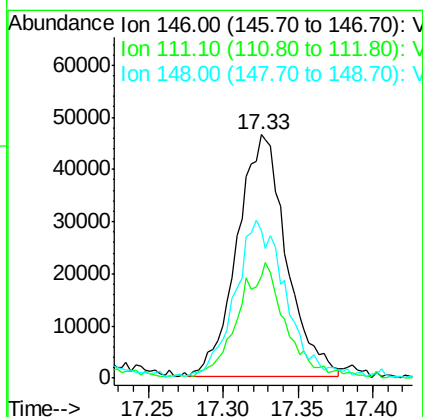
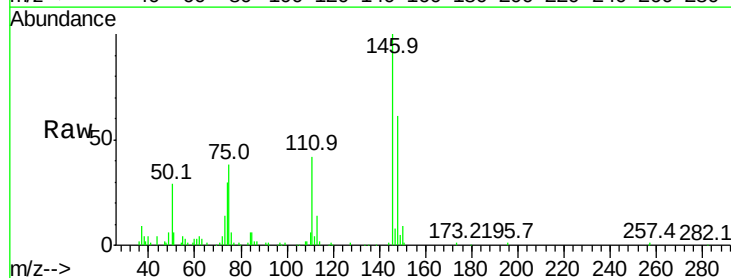
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

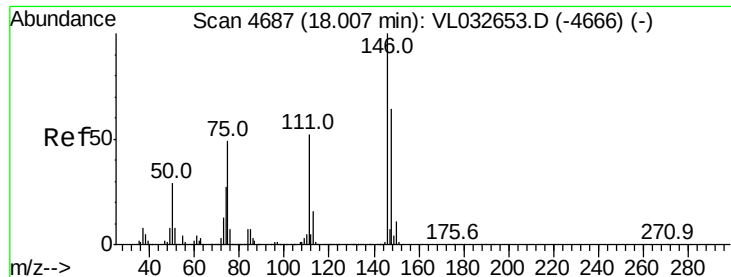
Tgt Ion:146 Resp: 126813
 Ion Ratio Lower Upper
 146 100
 111 49.3 24.4 73.2
 148 68.8 31.9 95.9



#76
 1,4-Dichlorobenzene
 Concen: 0.433 ppbv
 RT: 17.33 min Scan# 4475
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion:146 Resp: 106485
 Ion Ratio Lower Upper
 146 100
 111 47.2 23.7 71.1
 148 68.1 32.1 96.3

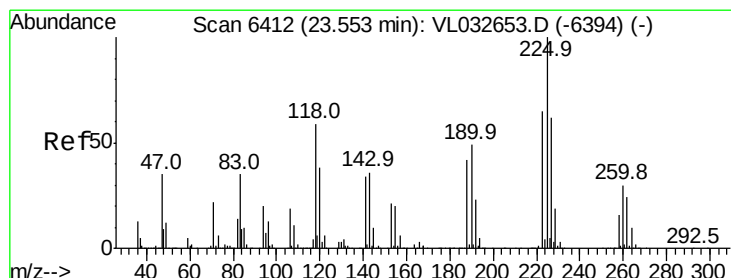
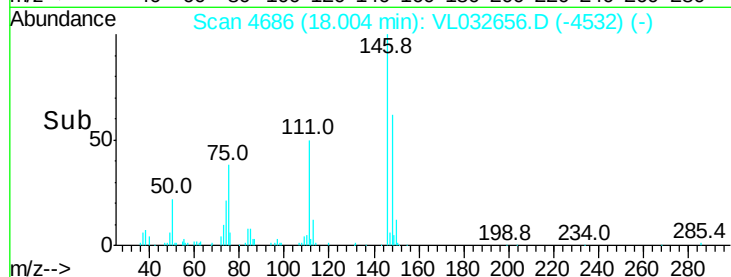
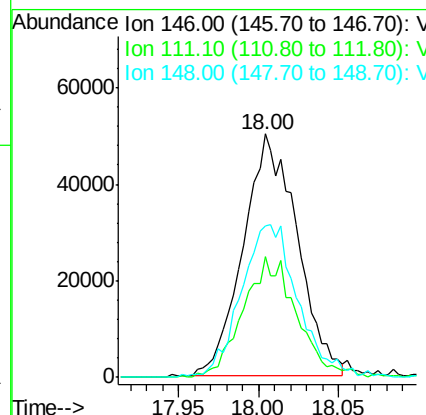
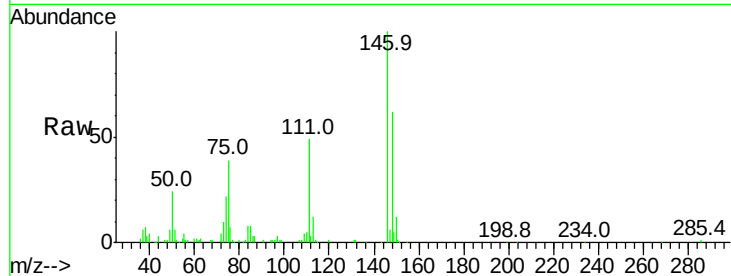




#77
 1,2-Dichlorobenzene
 Concen: 0.449 ppbv
 RT: 18.00 min Scan# 4686
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

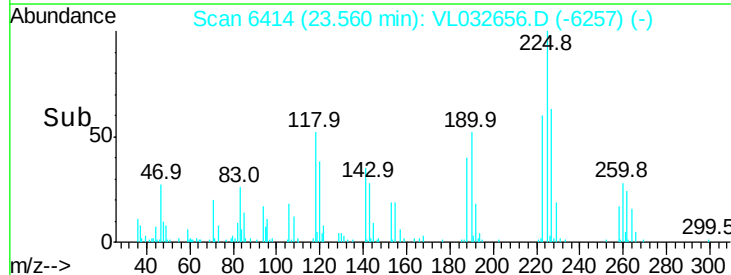
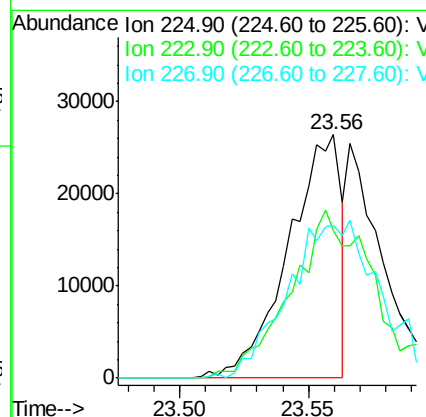
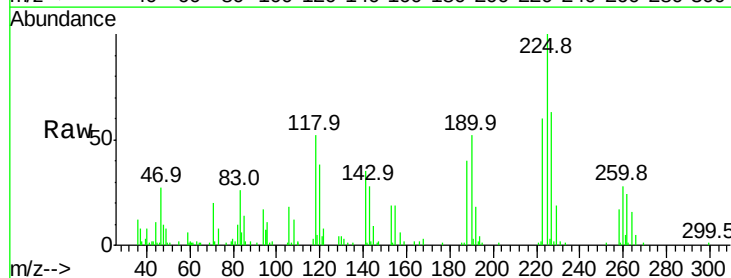
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

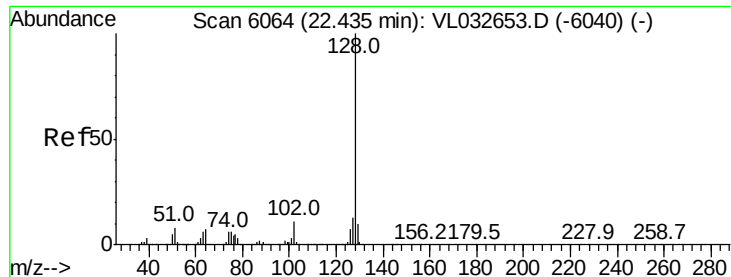
Tgt Ion:146 Resp: 116412
 Ion Ratio Lower Upper
 146 100
 111 49.7 25.3 75.8
 148 66.7 31.9 95.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.257 ppbv
 RT: 23.56 min Scan# 6414
 Delta R.T. 0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion:225 Resp: 37259
 Ion Ratio Lower Upper
 225 100
 223 109.5 50.7 76.1#
 227 0.0 50.7 76.1#





#79

Naphthalene

Concen: 0.155 ppbv

RT: 22.44 min Scan# 6067

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

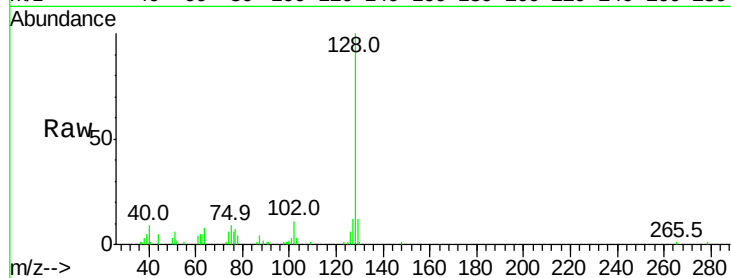
Tgt Ion:128 Resp: 49071

Ion Ratio Lower Upper

128 100

127 11.9 10.3 15.5

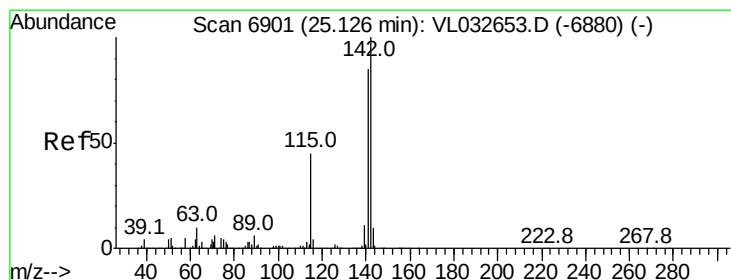
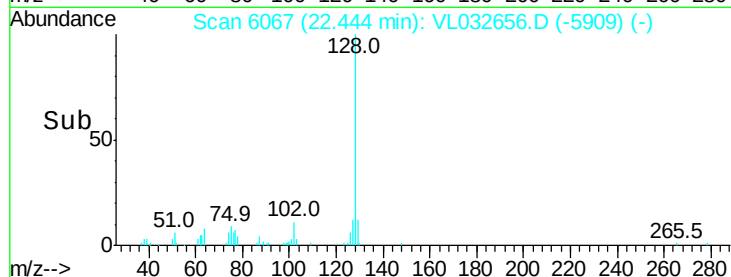
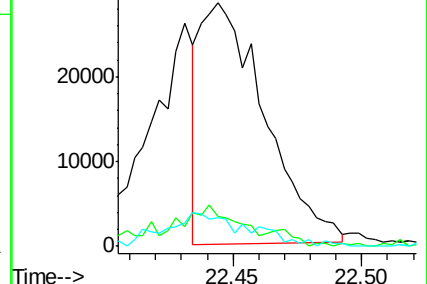
129 11.7 8.6 13.0



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: 0.136 ppbv

RT: 25.14 min Scan# 6904

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

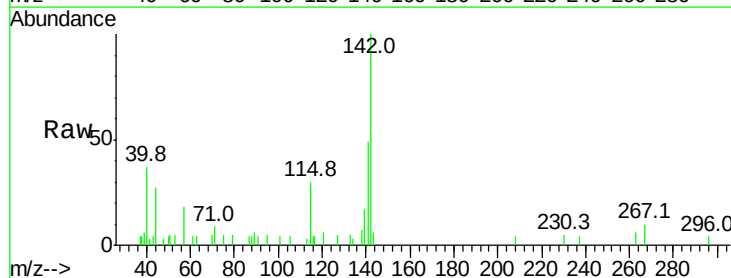
Tgt Ion:142 Resp: 8370

Ion Ratio Lower Upper

142 100

141 78.4 67.5 101.3

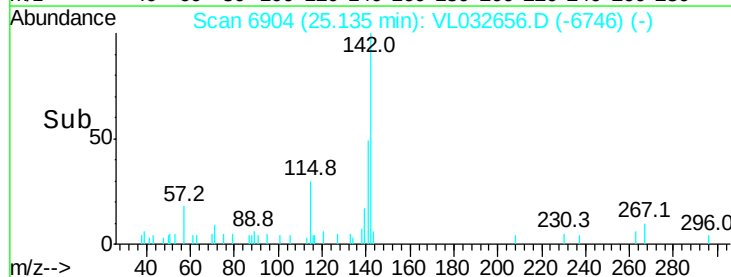
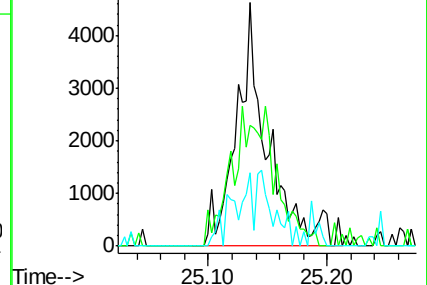
115 35.6 33.5 50.3

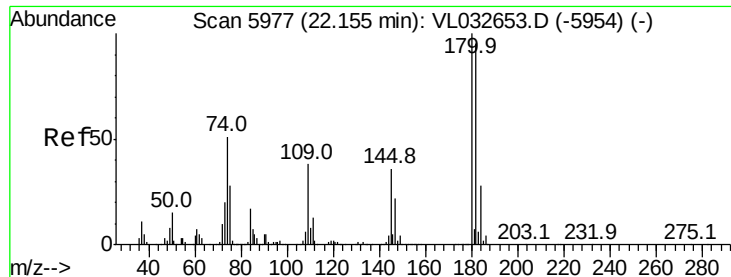


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.210 ppbv
 RT: 22.16 min Scan# 5980
 Delta R.T. 0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 32951
 Ion Ratio Lower Upper
 180 100
 182 145.0 76.5 114.7#
 184 45.3 24.7 37.1#

