

Data File : VL032350.D
Acq On : 15 Aug 2018 11:17
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Aug 15 12:41:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 11:44:08 2018
QLast Update : Wed Aug 15 11:44:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2275982	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4674086	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.30	117	4567640	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	3507945	9.89	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.11	85	245172	0.893	ppbv	99
3) Chlorodifluoromethane	3.05	51	227495	1.000	ppbv	99
4) Chloromethane	3.21	50	132285	0.960	ppbv #	87
5) Vinyl Chloride	3.33	62	122413	0.977	ppbv	98
6) Bromomethane	3.56	94	65994	0.960	ppbv	91
7) Chloroethane	3.64	64	43059	0.967	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	279966	1.010	ppbv	99
9) Propene	3.07	41	87132	0.852	ppbv	99
10) Heptane	8.31	43	276164	0.769	ppbv	98
11) Trichlorofluoromethane	4.05	101	280869	1.071	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.60	101	187643	1.048	ppbv	98
13) Ethanol	3.70	45	27389	0.931	ppbv	99
14) Bromoethene	3.83	108	77918	0.992	ppbv #	98
15) Acetone	3.95	43	249271	1.162	ppbv	100
16) 1,3-Butadiene	3.40	39	96602	0.869	ppbv	96
17) tert-Butyl alcohol	4.42	59	42420	0.622	ppbv	95
18) 1,1-Dichloroethene	4.40	96	82808	0.997	ppbv	93
19) Isopropyl Alcohol	4.08	45	157895	1.103	ppbv #	95
20) Methylene Chloride	4.46	84	93083	1.080	ppbv	94
21) Allyl Chloride	4.53	41	140747	0.962	ppbv	95
22) trans-1,2-Dichloroethene	5.02	96	85034	1.062	ppbv	88
23) Vinyl Acetate	5.21	43	427063	1.110	ppbv #	97
24) 1,1-Dichloroethane	5.14	63	289824	1.050	ppbv	99
25) Ethyl Acetate	5.83	43	483752	1.005	ppbv	99
26) Hexane	5.83	57	210356	0.966	ppbv	93
27) Carbon Disulfide	4.67	76	188858	0.954	ppbv #	92
28) Methyl tert-Butyl Ether	5.17	73	272933	0.926	ppbv	100
29) Chloroform	5.90	83	327936	1.035	ppbv	98
30) Cyclohexane	7.31	84	149270	0.878	ppbv #	64
31) cis-1,2-Dichloroethene	5.69	61	201640	0.998	ppbv	98
32) 1,1,1-Trichloroethane	6.67	97	312940	1.116	ppbv	100
34) 2-Butanone	5.39	43	329506	1.089	ppbv	99
35) Carbon Tetrachloride	7.19	117	295223	1.112	ppbv	98
36) Benzene	7.06	78	406774	0.987	ppbv	99
37) 1,2-Dichloroethane	6.47	62	252769	1.062	ppbv	100
38) Trichloroethene	8.02	130	142488	0.895	ppbv	93
39) 1,2-Dichloropropane	7.79	63	171853	0.829	ppbv	95
40) 1,4-Dioxane	8.04	88	23173	0.381	ppbv #	1
41) Tetrahydrofuran	6.22	42	164928	0.964	ppbv	99
42) Bromodichloromethane	7.98	83	326416	0.847	ppbv	98
43) Methyl Methacrylate	8.20	69	154284	0.780	ppbv	99

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Quant Time: Aug 15 12:41:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 11:44:08 2018
QLast Update : Wed Aug 15 11:44:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	771067	0.863	ppbv	98
45) t-1,3-Dichloropropene	9.48	75	185532	0.810	ppbv	93
46) cis-1,3-Dichloropropene	8.90	75	230680	0.822	ppbv	98
47) 1,1,2-Trichloroethane	9.68	97	198623	0.986	ppbv	94
48) Dibromochloromethane	10.51	129	242884	0.818	ppbv	100
49) Bromoform	13.27	173	118745	0.486	ppbv #	27
50) 4-Methyl-2-Pentanone	8.95	43	485857	0.910	ppbv	100
51) 2-Hexanone	10.35	43	306663	0.754	ppbv #	97
52) Tetrachloroethene	11.44	164	124441	0.896	ppbv	92
53) Toluene	10.01	91	395772	0.804	ppbv	99
54) 1,2-Dibromoethane	10.83	107	239391	0.836	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.34	131	197005	1.046	ppbv #	1
57) Chlorobenzene	12.37	112	369276	1.040	ppbv #	97
58) Ethyl Benzene	12.94	91	555143	0.969	ppbv	98
59) m/p-Xylene	13.22	91	354010	0.726	ppbv #	1
60) o-Xylene	13.92	91	497997	1.042	ppbv	95
61) Styrene	13.75	104	307732	0.875	ppbv	99
62) Isopropylbenzene	14.89	105	689716	1.016	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	423465	1.089	ppbv	100
64) n-propylbenzene	15.79	120	174715	0.988	ppbv	86
65) tert-Butylbenzene	16.98	119	603139	1.051	ppbv	100
66) Benzyl Chloride	17.22	91	293613	0.859	ppbv	94
67) sec-Butylbenzene	17.52	105	885875	1.031	ppbv	98
69) p-Isopropyltoluene	17.88	119	660971	0.993	ppbv	99
70) n-Butylbenzene	18.78	91	734925	0.956	ppbv	96
71) 2-Chlorotoluene	15.69	91	524887	0.985	ppbv	98
72) 4-Ethyltoluene	16.07	105	519941	0.971	ppbv	98
73) 1,3,5-Trimethylbenzene	16.22	105	499869	0.948	ppbv	96
74) 1,2,4-Trimethylbenzene	16.99	105	561204	1.010	ppbv	97
75) 1,3-Dichlorobenzene	17.23	146	334591	1.039	ppbv	94
76) 1,4-Dichlorobenzene	17.38	146	312502	1.012	ppbv	98
77) 1,2-Dichlorobenzene	18.05	146	177700	0.562	ppbv #	30
78) Hexachloro-1,3-Butadiene	23.60	225	54695	0.492	ppbv #	16
79) Naphthalene	22.49	128	151922	0.315	ppbv	99
80) Naphthalene,2-methyl-	25.17	142	20893	0.109	ppbv	90
81) 1,2,4-Trichlorobenzene	22.22	180	175680	0.729	ppbv	97

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

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MSVOA_L
ClientSampleId :
VSTDICC001

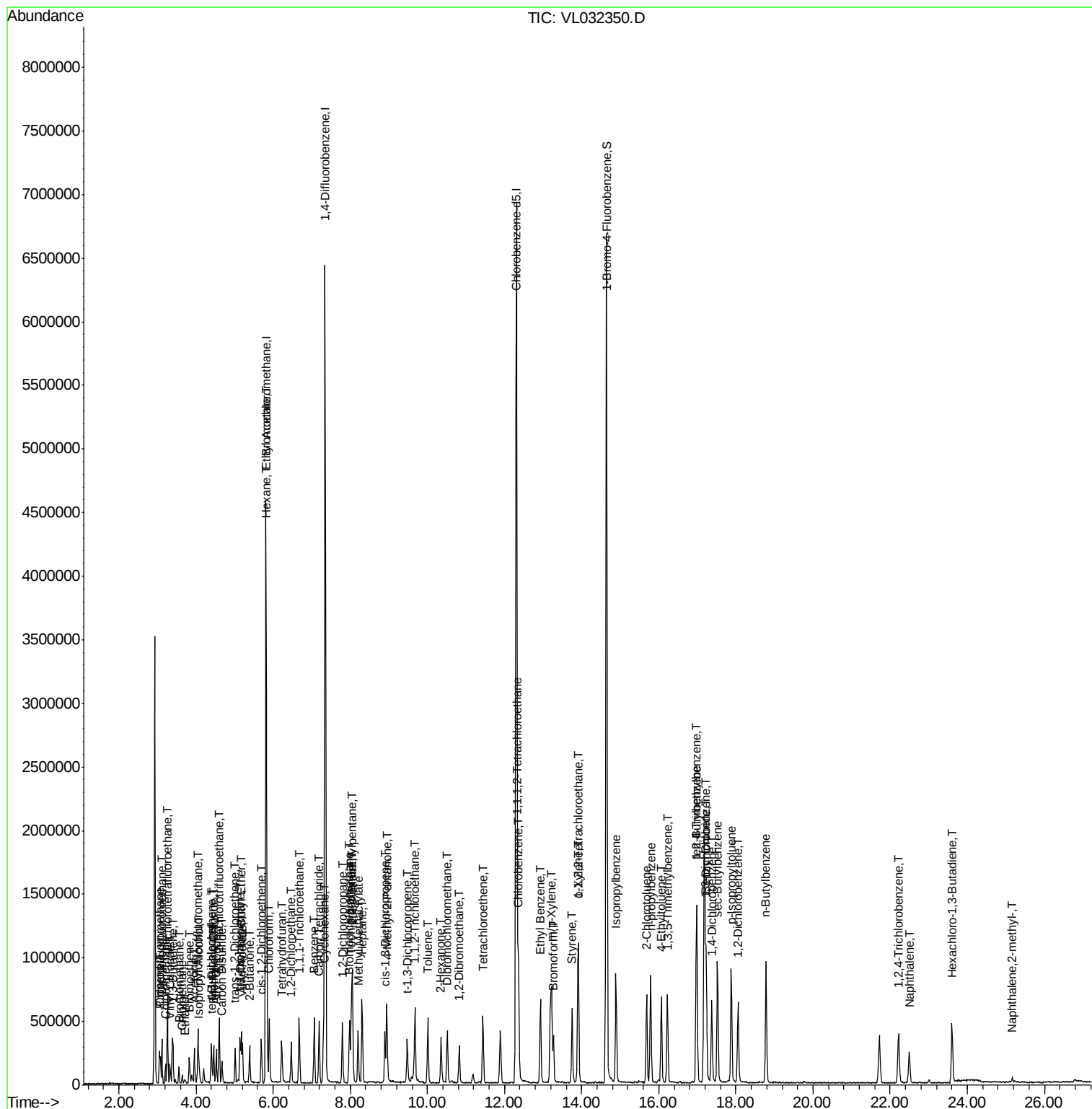
Quant Time: Aug 15 12:41:38 2018

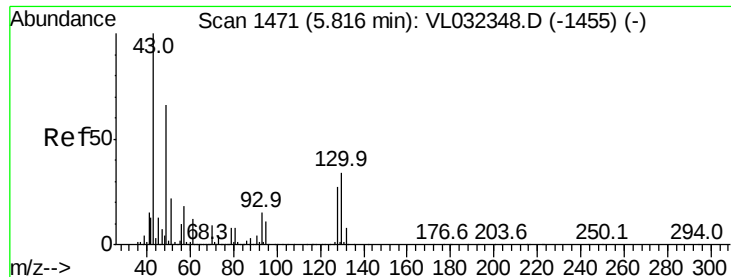
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL081518AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Aug 15 11:44:08 2018

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

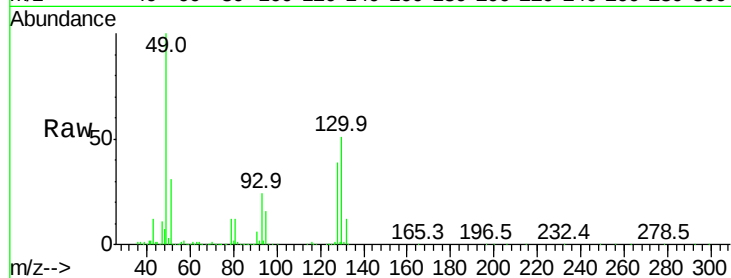
Tgt Ion: 49 Resp: 2275982

Ion Ratio Lower Upper

49 100

128 40.1 20.2 60.6

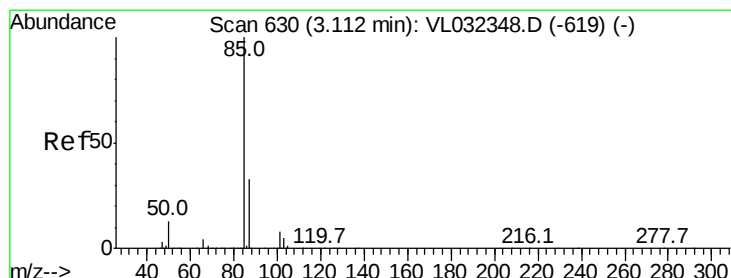
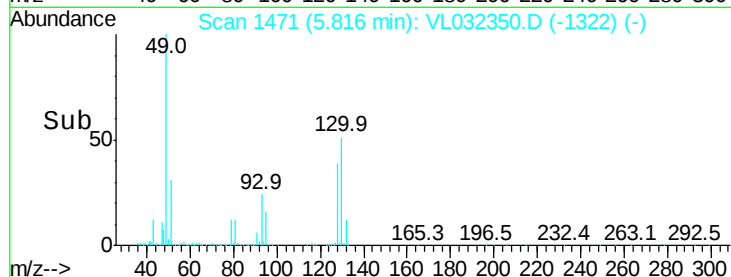
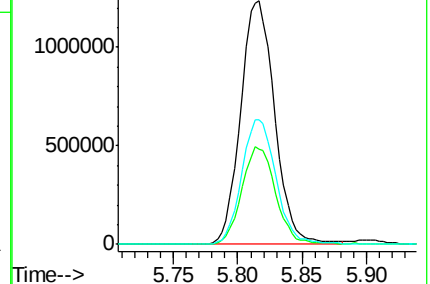
130 51.7 25.8 77.3



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: 0.893 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032350.D

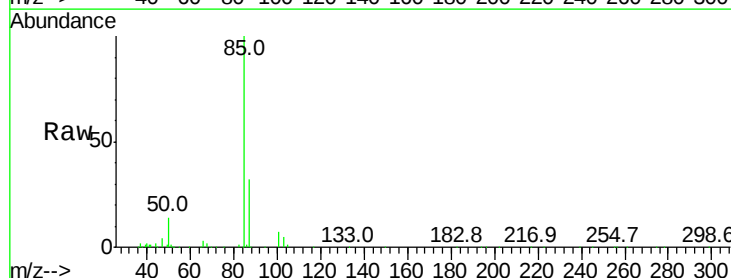
Acq: 15 Aug 2018 11:17

Tgt Ion: 85 Resp: 245172

Ion Ratio Lower Upper

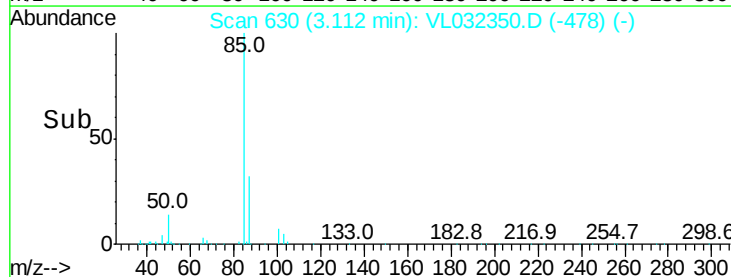
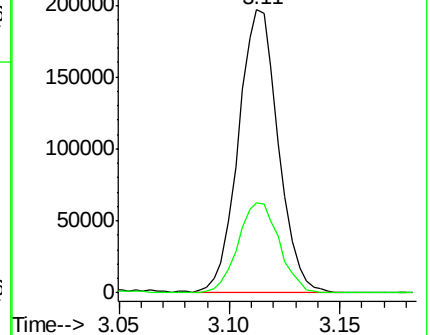
85 100

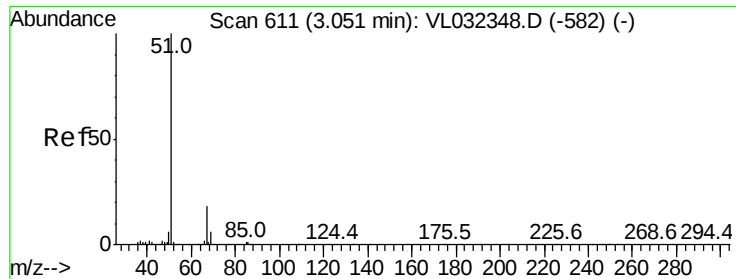
87 32.0 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.000 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

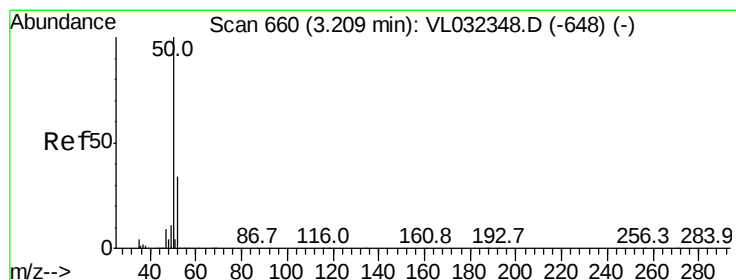
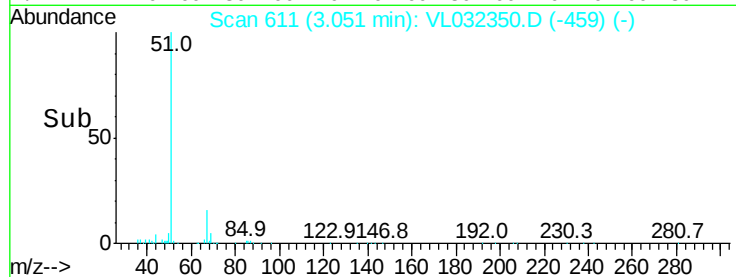
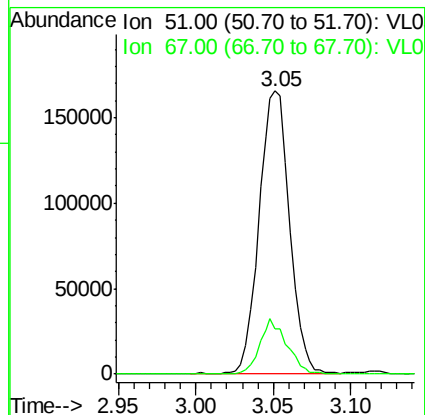
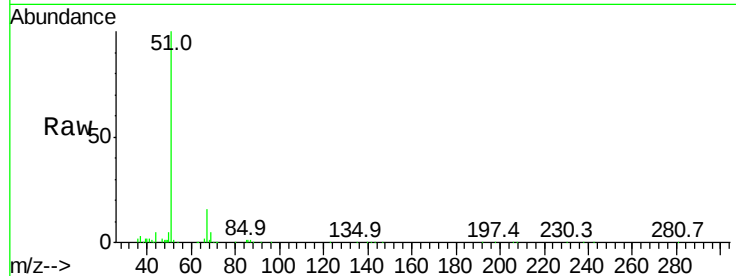
VSTDIC001

Tgt Ion: 51 Resp: 227495

Ion Ratio Lower Upper

51 100

67 17.4 13.5 20.3



#4

Chloromethane

Concen: 0.960 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL032350.D

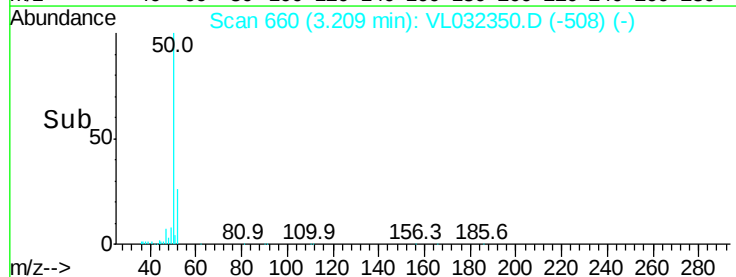
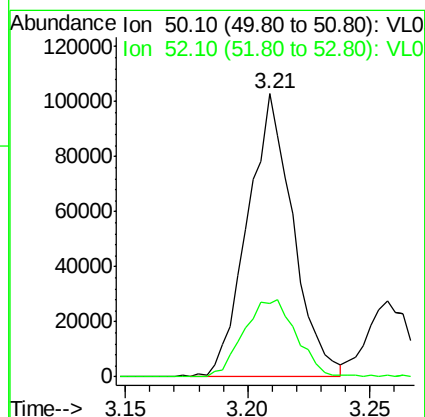
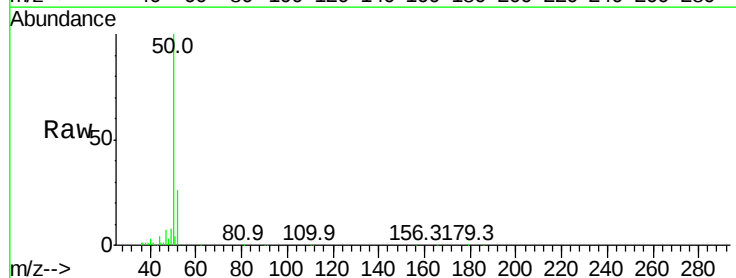
Acq: 15 Aug 2018 11:17

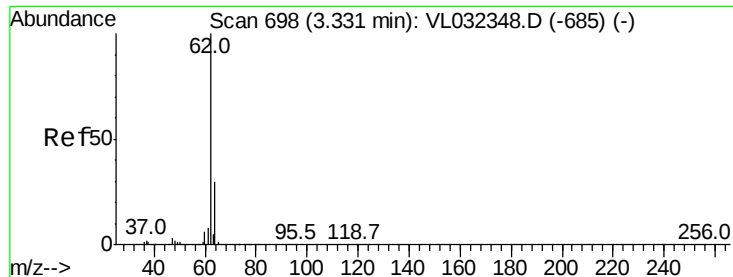
Tgt Ion: 50 Resp: 132285

Ion Ratio Lower Upper

50 100

52 25.6 26.2 39.4#





#5

Vinyl Chloride

Concen: 0.977 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

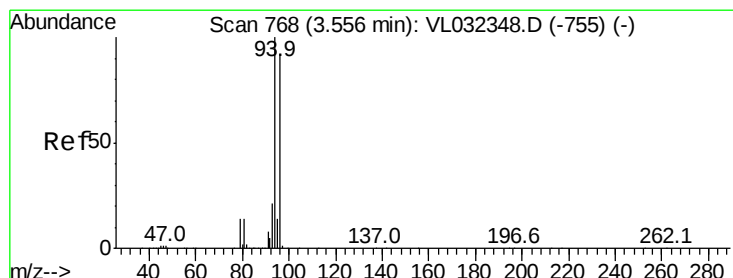
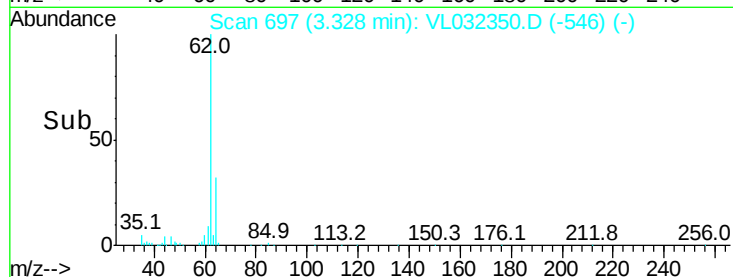
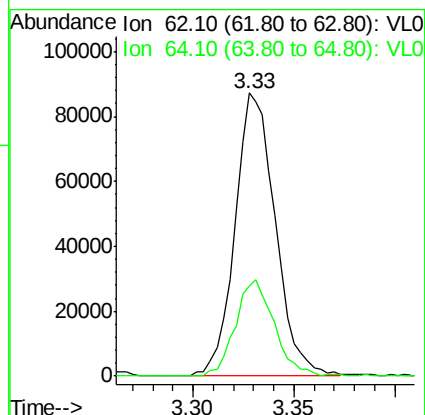
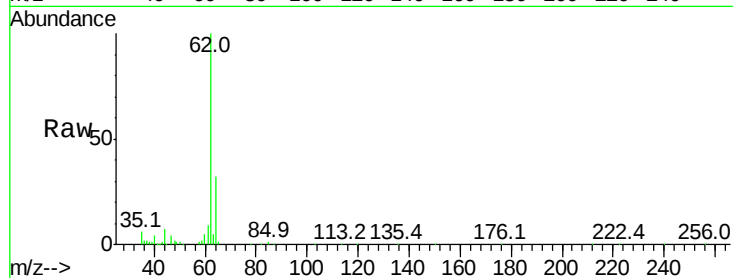
VSTDIC001

Tgt Ion: 62 Resp: 122413

Ion Ratio Lower Upper

62 100

64 31.4 24.1 36.1



#6

Bromomethane

Concen: 0.960 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032350.D

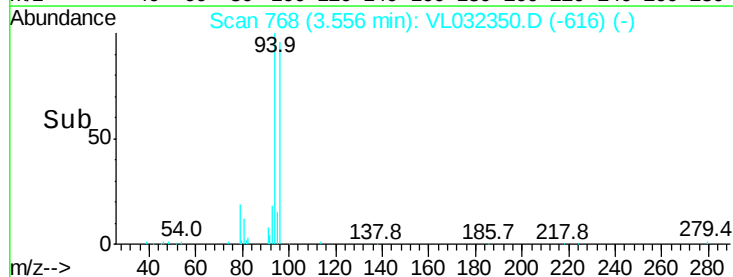
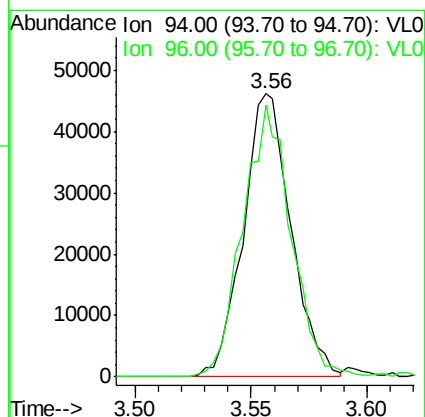
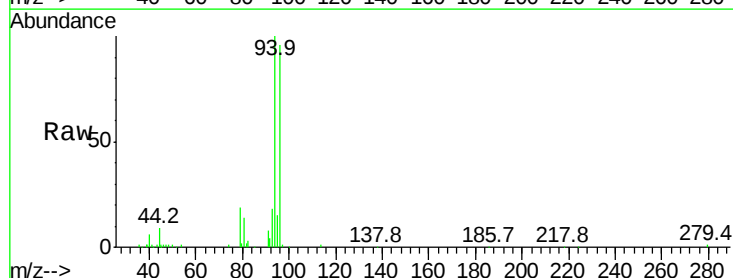
Acq: 15 Aug 2018 11:17

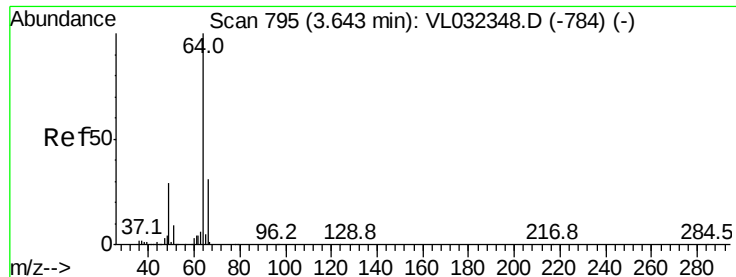
Tgt Ion: 94 Resp: 65994

Ion Ratio Lower Upper

94 100

96 96.0 70.2 105.4





#7

Chloroethane

Concen: 0.967 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

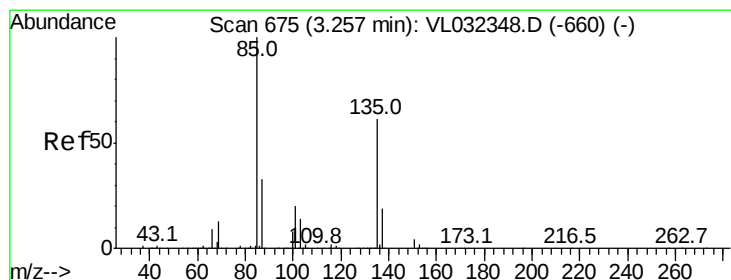
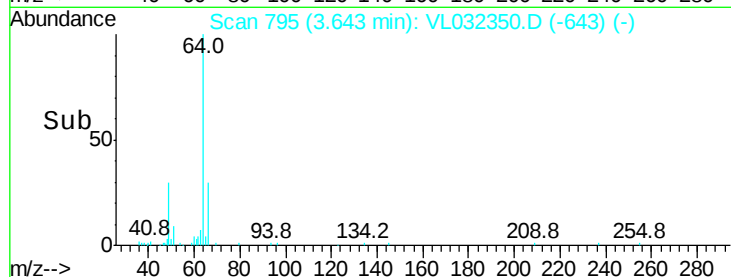
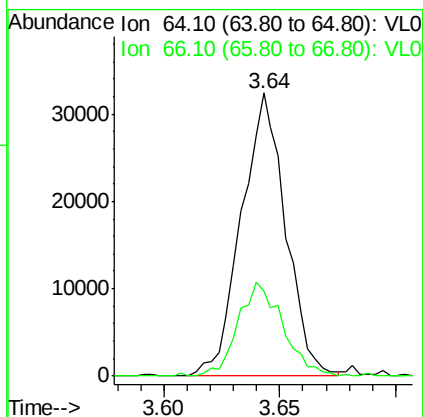
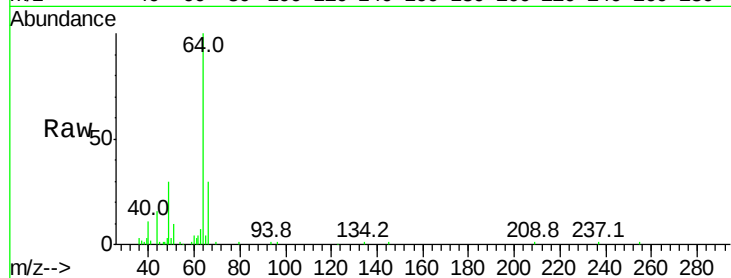
VSTDIC001

Tgt Ion: 64 Resp: 43059

Ion Ratio Lower Upper

64 100

66 29.9 25.7 38.5



#8

Dichlorotetrafluoroethane

Concen: 1.010 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL032350.D

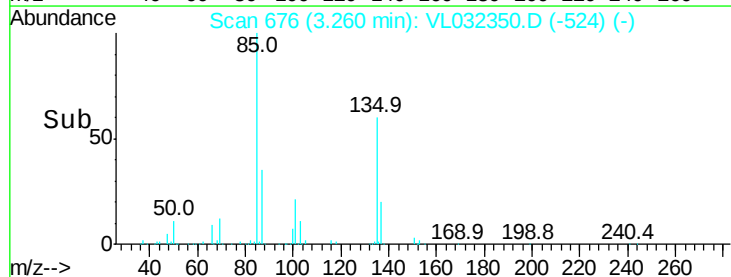
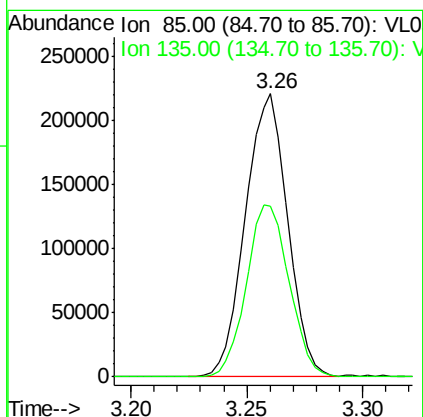
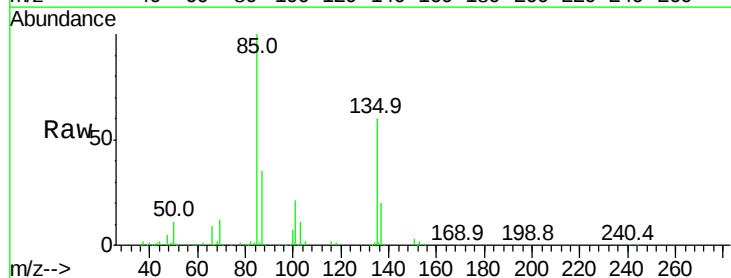
Acq: 15 Aug 2018 11:17

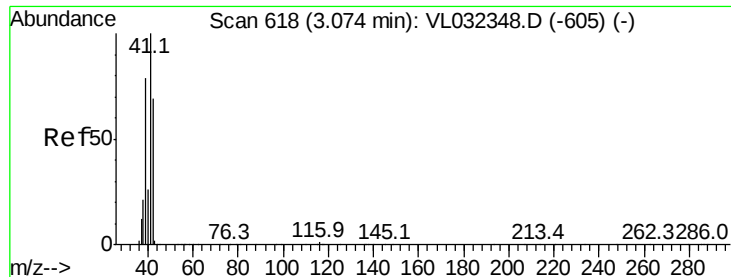
Tgt Ion: 85 Resp: 279966

Ion Ratio Lower Upper

85 100

135 61.7 48.7 73.1





#9

Propene

Concen: 0.852 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.01 min

Lab File: VL032350.D

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ClientSampleId :

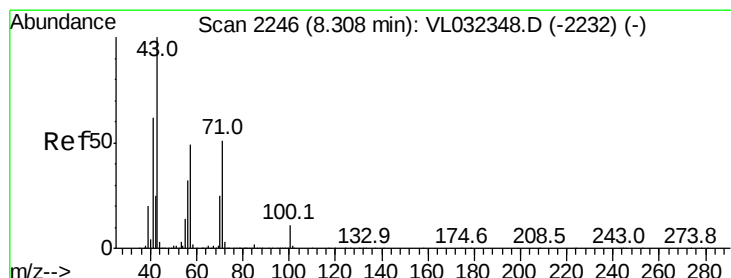
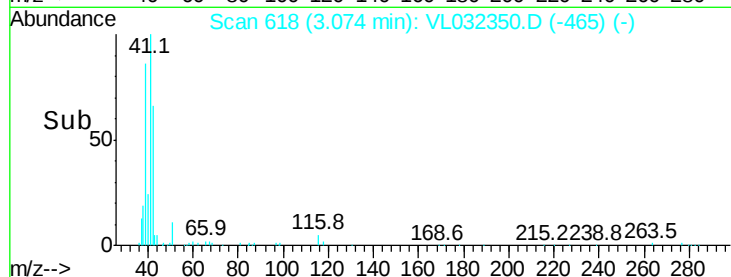
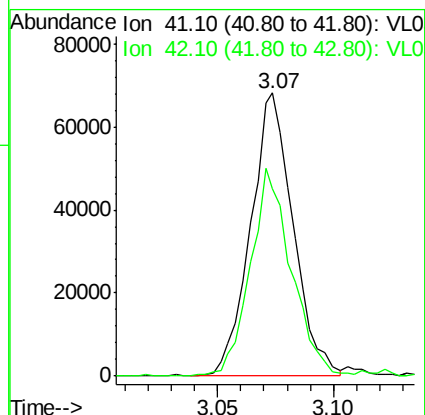
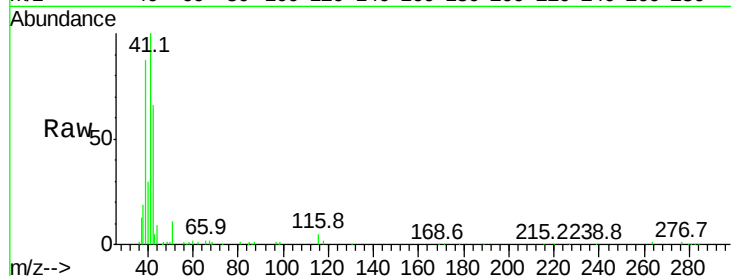
VSTDIC001

Tgt Ion: 41 Resp: 87132

Ion Ratio Lower Upper

41 100

42 72.1 56.8 85.2



#10

Heptane

Concen: 0.769 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032350.D

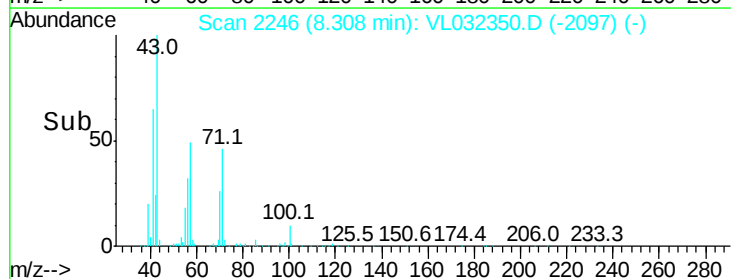
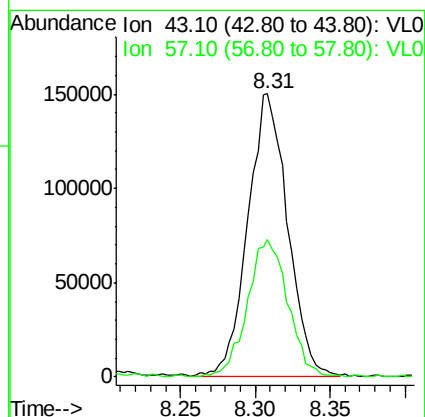
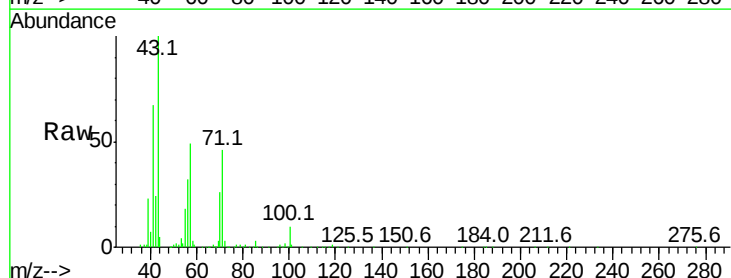
Acq: 15 Aug 2018 11:17

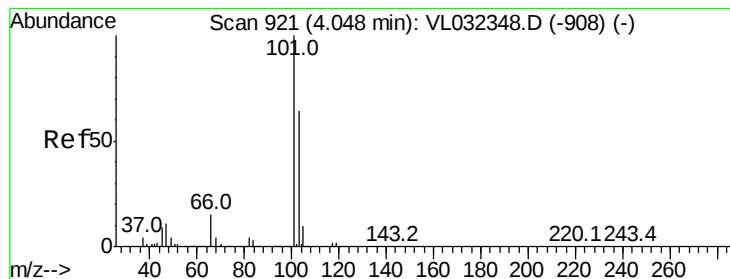
Tgt Ion: 43 Resp: 276164

Ion Ratio Lower Upper

43 100

57 50.1 39.0 58.4





#11

Trichlorofluoromethane

Concen: 1.071 ppbv

RT: 4.05 min Scan# 922

Delta R.T. -0.01 min

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Acq: 15 Aug 2018 11:17

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ClientSampleId :

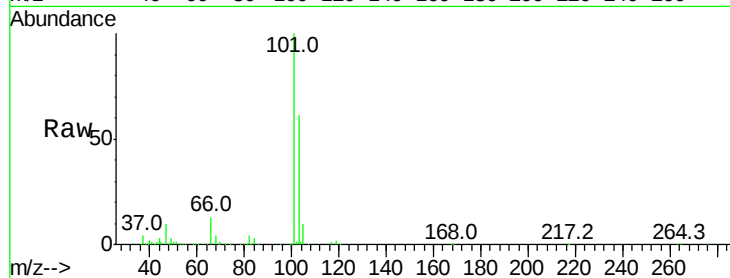
VSTDIC001

Tgt Ion:101 Resp: 280869

Ion Ratio Lower Upper

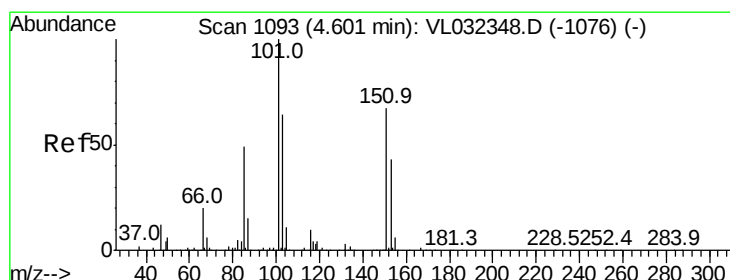
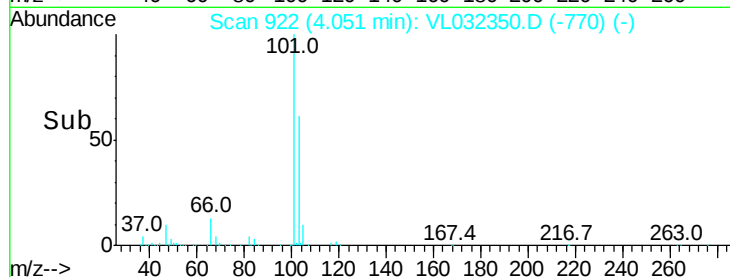
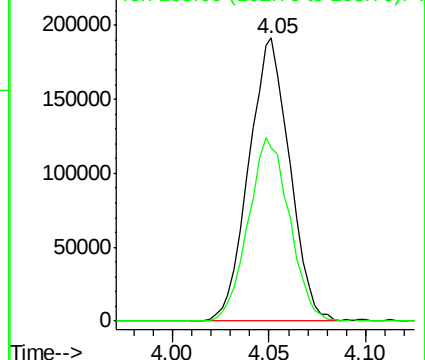
101 100

103 61.1 52.6 78.8



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: 1.048 ppbv

RT: 4.60 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VL032350.D

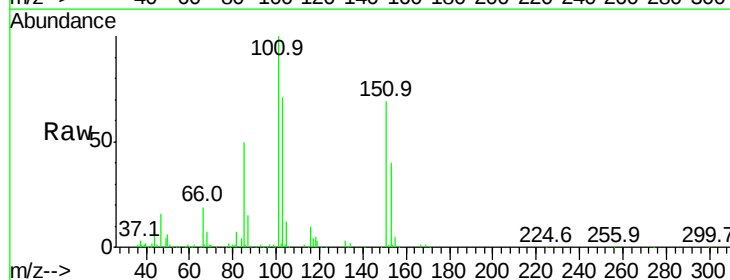
Acq: 15 Aug 2018 11:17

Tgt Ion:101 Resp: 187643

Ion Ratio Lower Upper

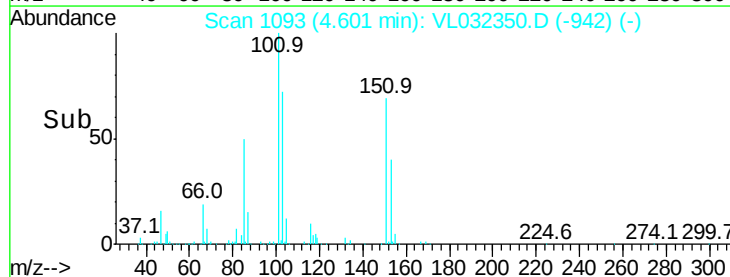
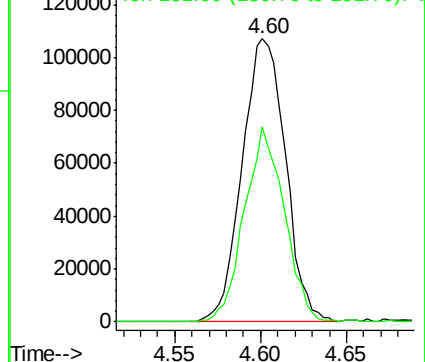
101 100

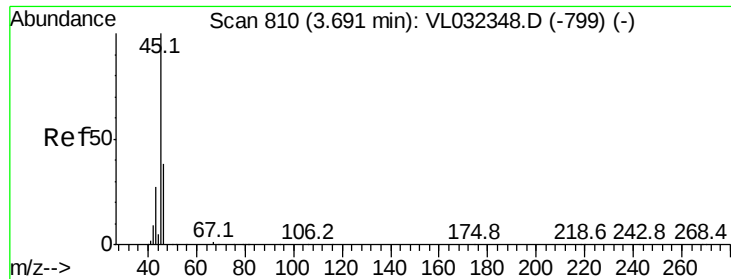
151 63.9 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.931 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.00 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

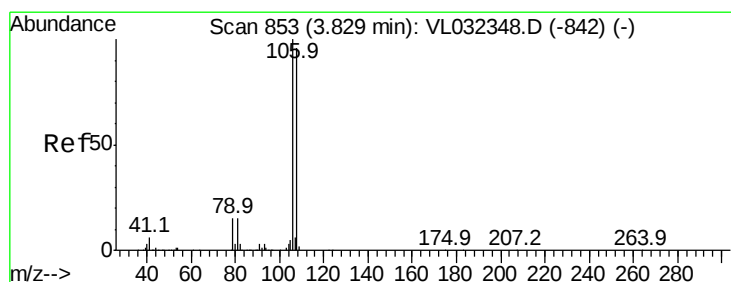
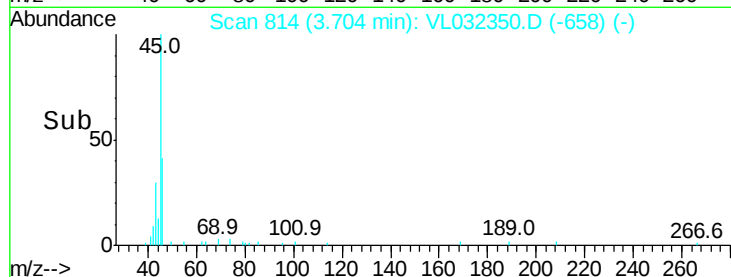
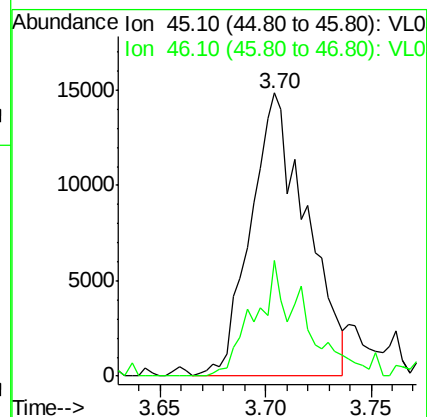
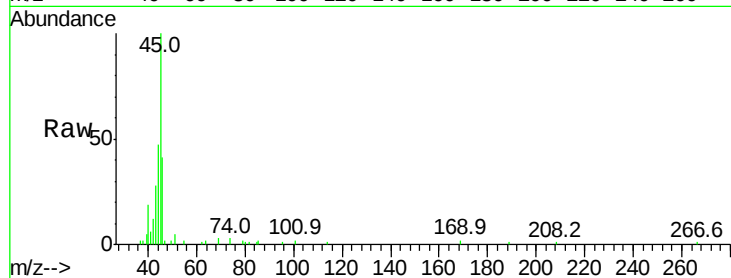
VSTDIC001

Tgt Ion: 45 Resp: 27389

Ion Ratio Lower Upper

45 100

46 37.1 15.2 60.6



#14

Bromoethene

Concen: 0.992 ppbv

RT: 3.83 min Scan# 854

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

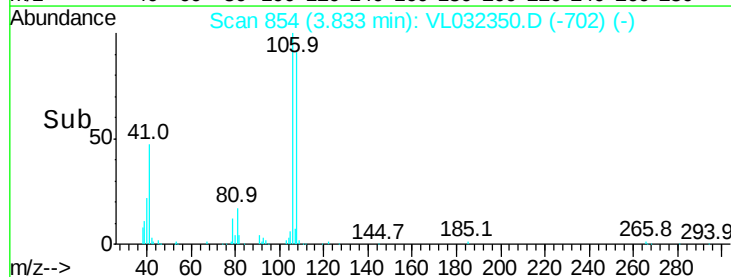
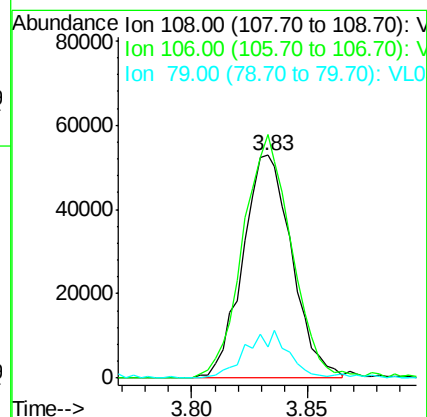
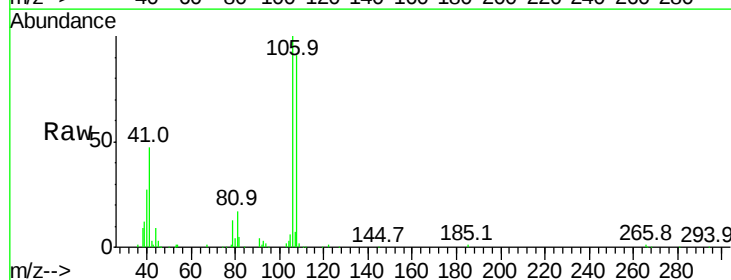
Tgt Ion: 108 Resp: 77918

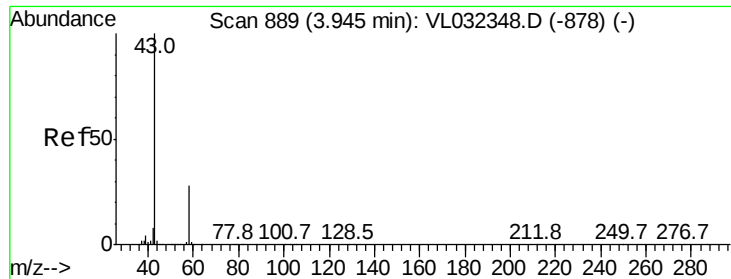
Ion Ratio Lower Upper

108 100

106 108.9 86.0 129.0

79 19.5 12.8 19.2#





#15

Acetone

Concen: 1.162 ppbv

RT: 3.95 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

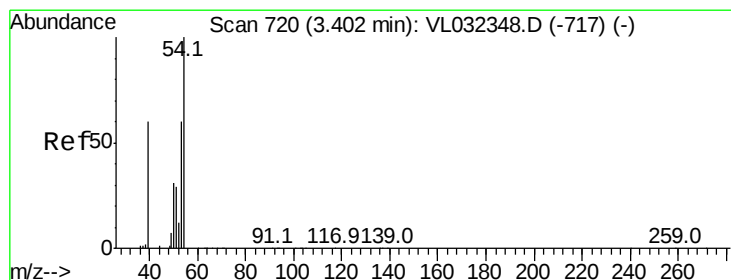
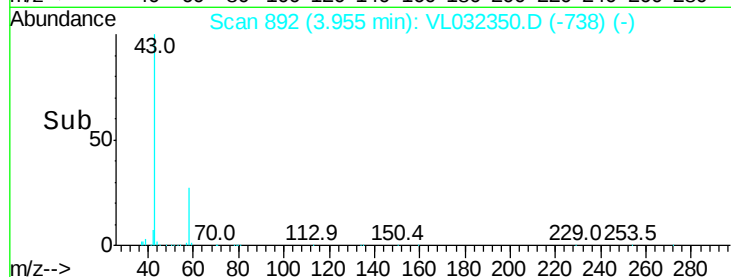
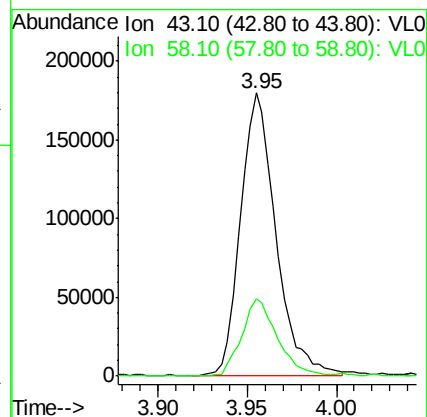
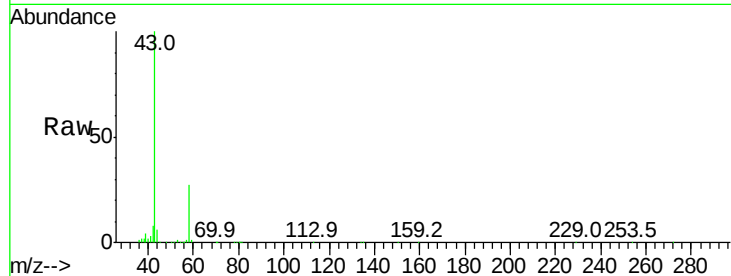
VSTDIC001

Tgt Ion: 43 Resp: 249271

Ion Ratio Lower Upper

43 100

58 28.1 22.5 33.7



#16

1,3-Butadiene

Concen: 0.869 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.01 min

Lab File: VL032350.D

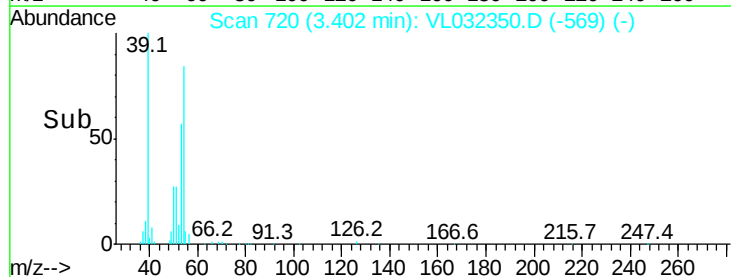
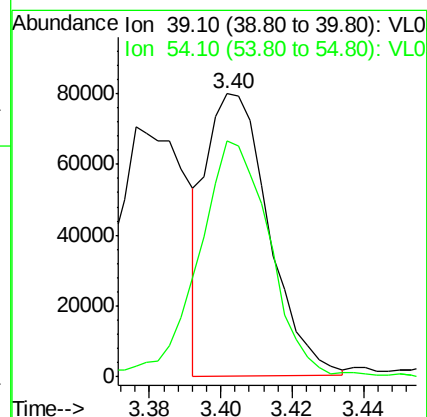
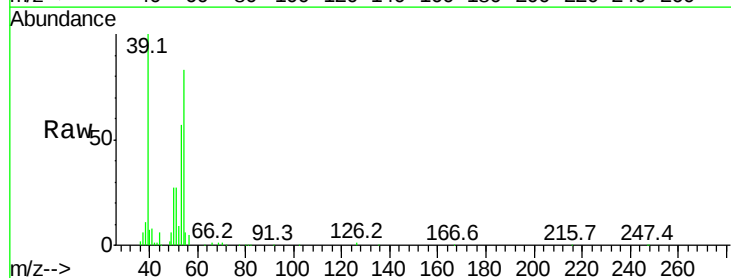
Acq: 15 Aug 2018 11:17

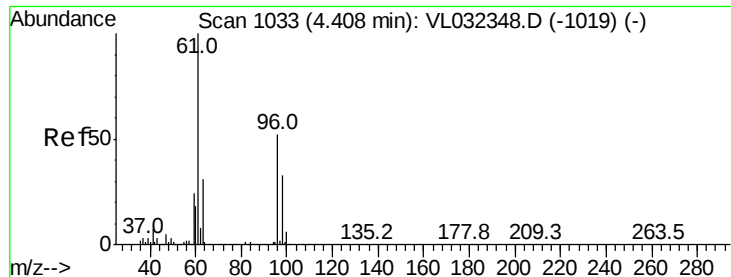
Tgt Ion: 39 Resp: 96602

Ion Ratio Lower Upper

39 100

54 96.5 74.3 111.5

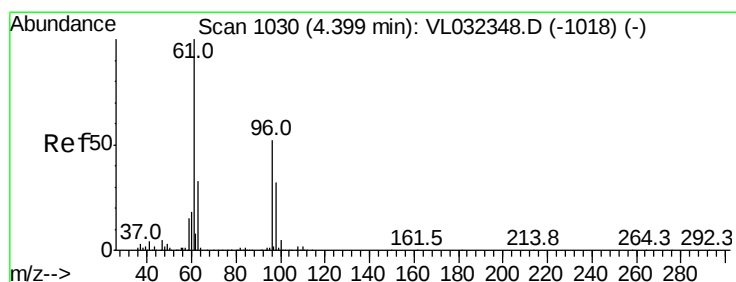
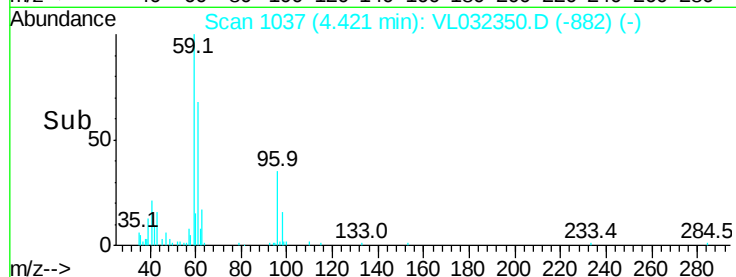
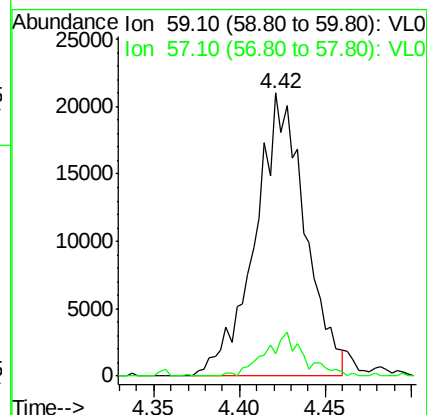
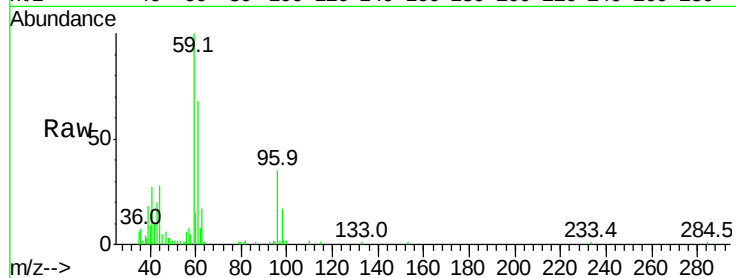




#17
 tert-Butyl alcohol
 Concen: 0.622 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

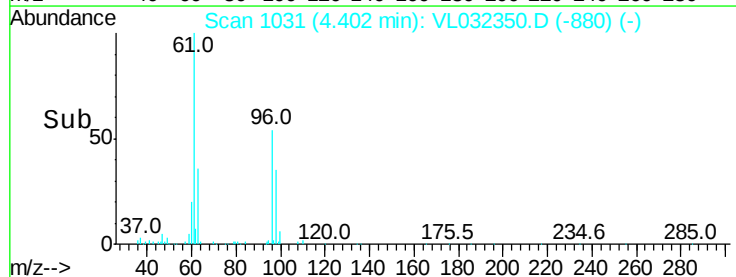
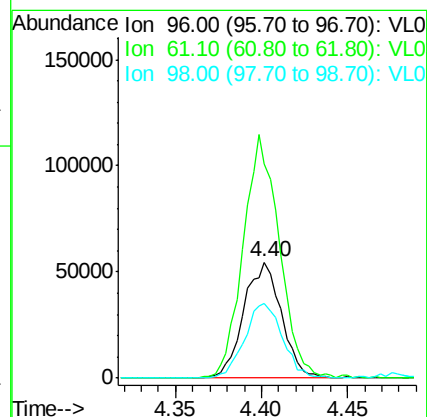
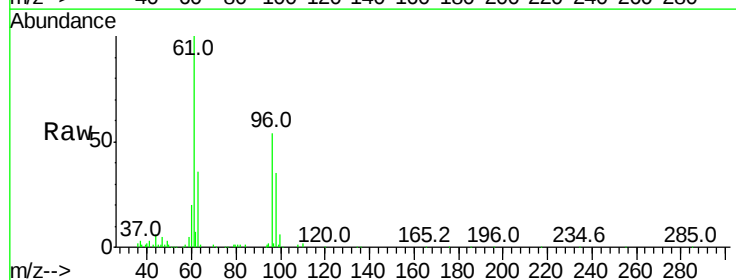
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

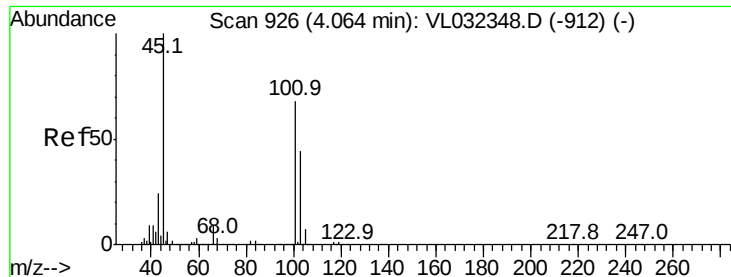
Tgt Ion: 59 Resp: 42420
 Ion Ratio Lower Upper
 59 100
 57 12.0 8.0 12.0



#18
 1,1-Dichloroethene
 Concen: 0.997 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 96 Resp: 82808
 Ion Ratio Lower Upper
 96 100
 61 184.7 159.0 238.4
 98 64.9 51.1 76.7





#19

Isopropyl Alcohol

Concen: 1.103 ppbv

RT: 4.08 min Scan# 931

Delta R.T. -0.00 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

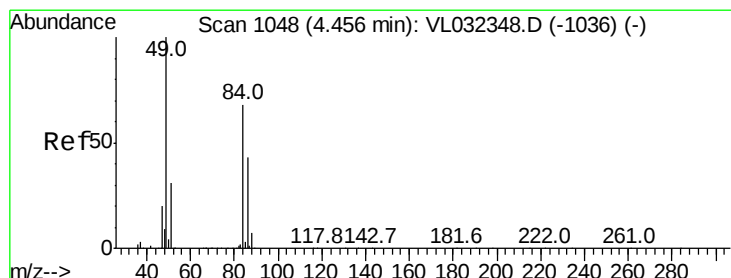
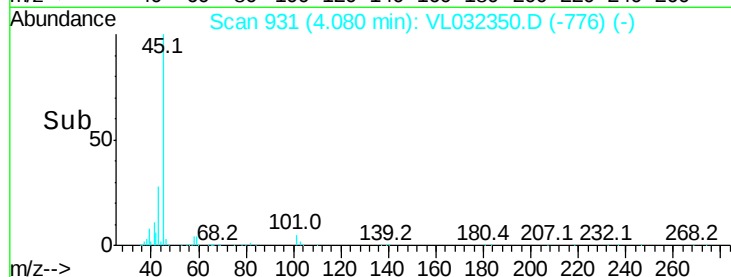
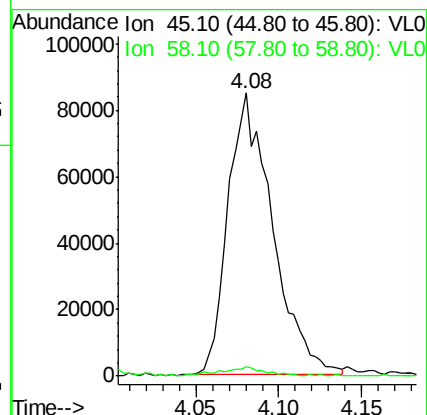
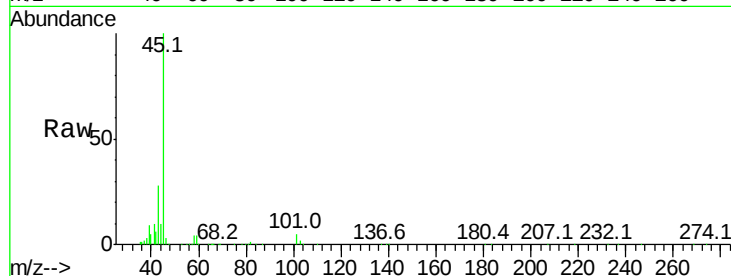
VSTDIC001

Tgt Ion: 45 Resp: 157895

Ion Ratio Lower Upper

45 100

58 3.6 1.5 2.3#



#20

Methylene Chloride

Concen: 1.080 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 84 Resp: 93083

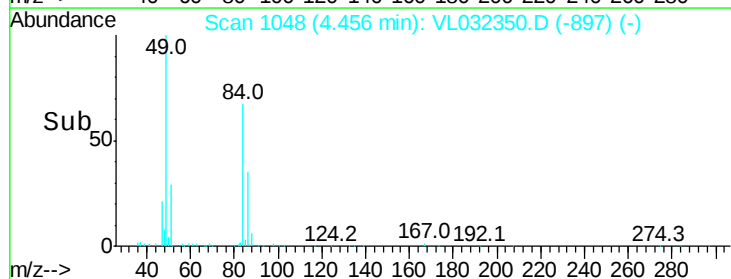
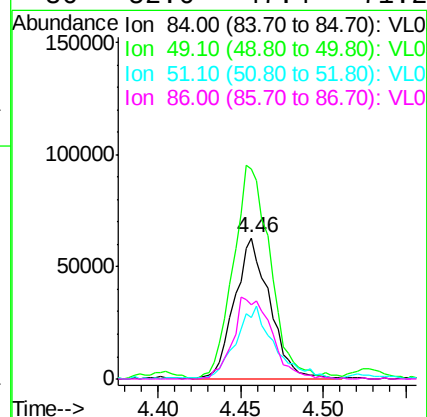
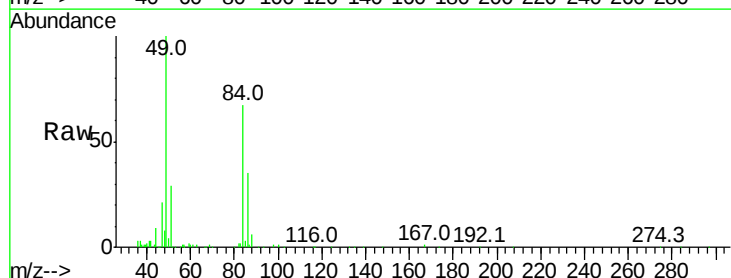
Ion Ratio Lower Upper

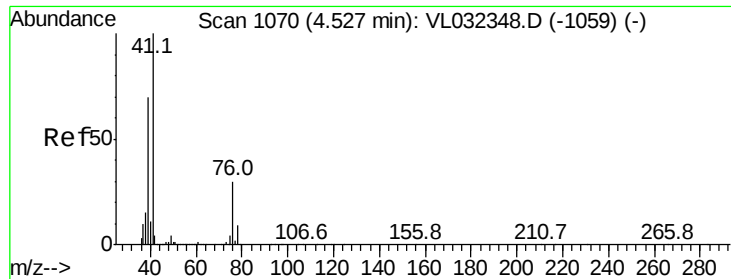
84 100

49 147.8 123.4 185.0

51 43.1 38.2 57.2

86 52.6 47.4 71.2

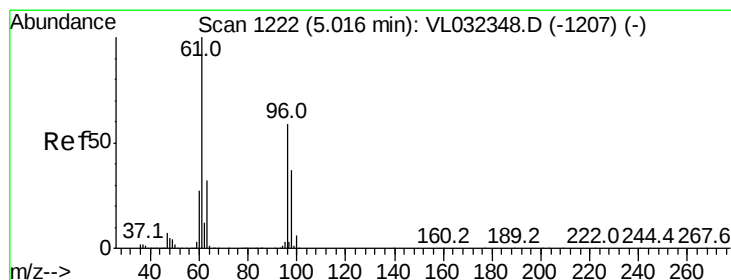
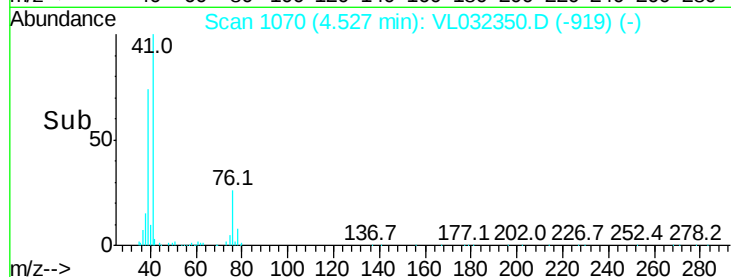
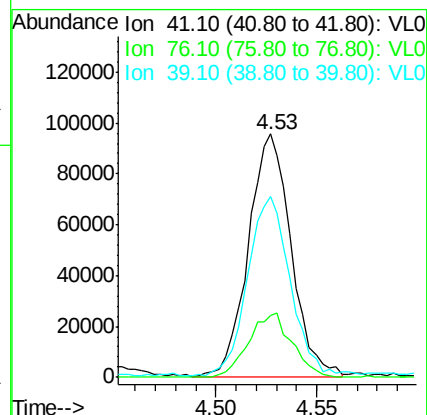
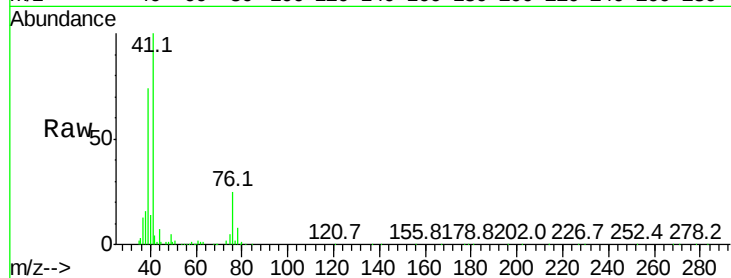




#21
 Allyl Chloride
 Concen: 0.962 ppbv
 RT: 4.53 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

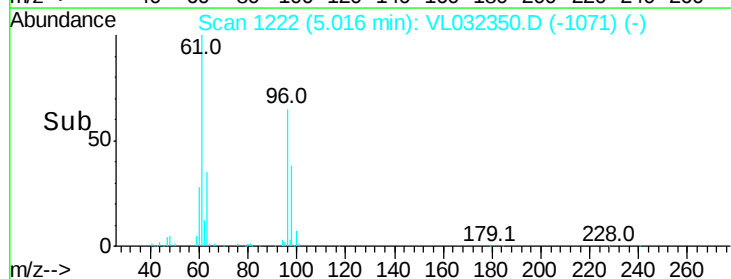
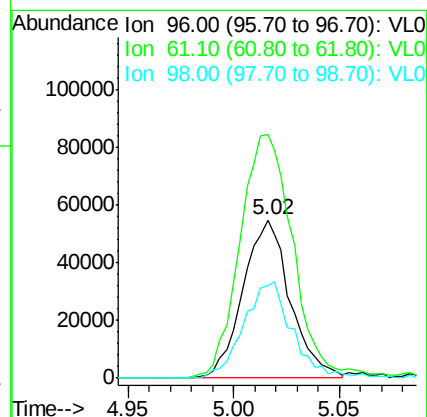
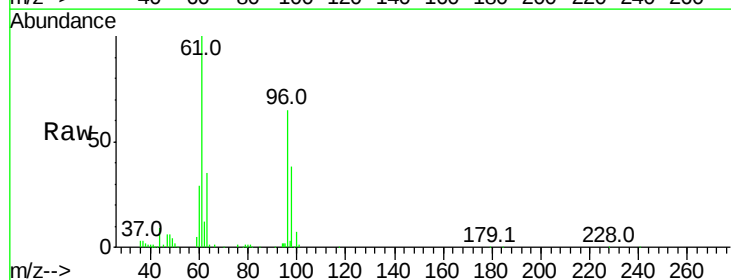
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

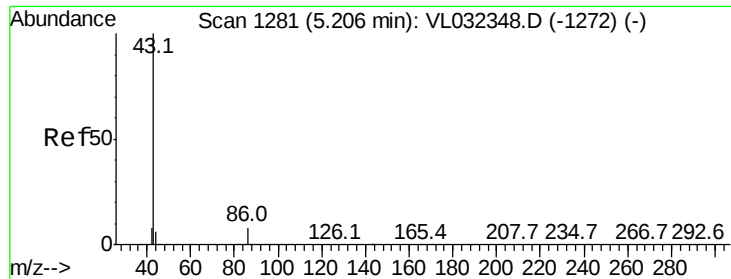
Tgt Ion: 41 Resp: 140747
 Ion Ratio Lower Upper
 41 100
 76 27.2 23.1 34.7
 39 77.1 58.2 87.2



#22
 trans-1,2-Dichloroethene
 Concen: 1.062 ppbv
 RT: 5.02 min Scan# 1222
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 96 Resp: 85034
 Ion Ratio Lower Upper
 96 100
 61 152.6 136.5 204.7
 98 57.1 51.3 76.9





#23

Vinyl Acetate

Concen: 1.110 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

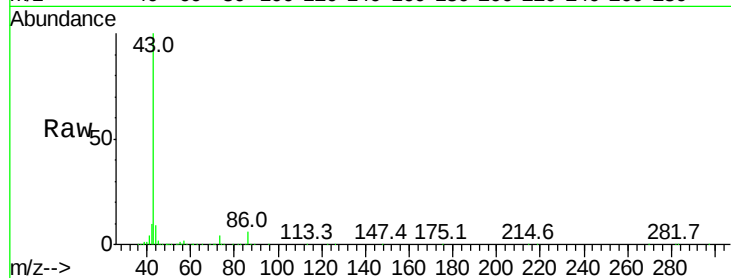
ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 427063

Ion Ratio Lower Upper

43	100		
86	6.3	6.3	9.5
42	9.6	7.0	10.4
44	7.1	4.6	7.0#

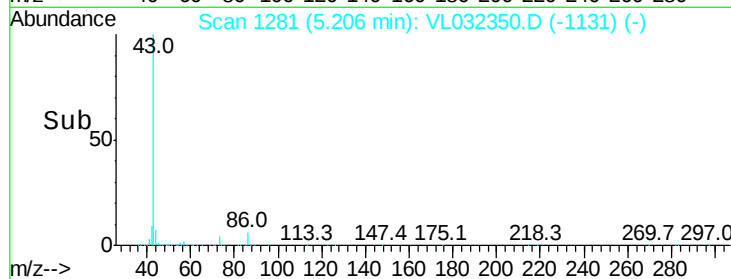
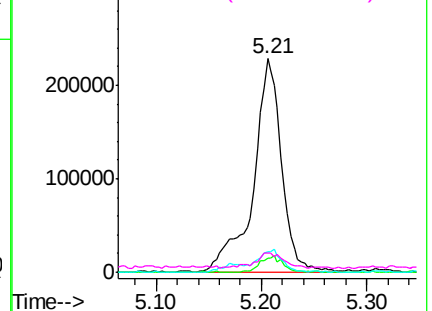


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.050 ppbv

RT: 5.14 min Scan# 1261

Delta R.T. -0.02 min

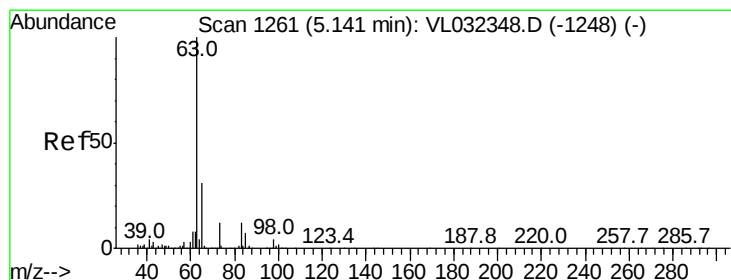
Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 63 Resp: 289824

Ion Ratio Lower Upper

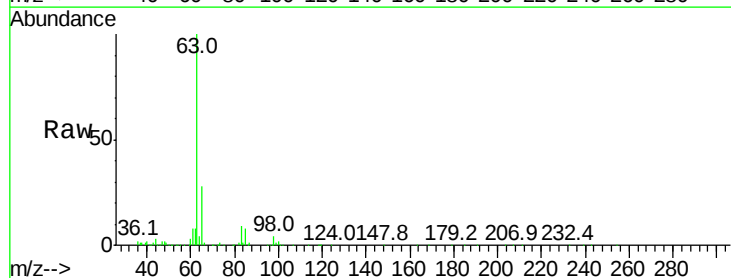
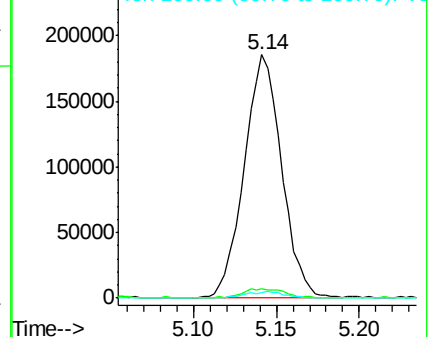
63	100		
98	3.9	2.1	6.5
100	2.4	1.3	3.8

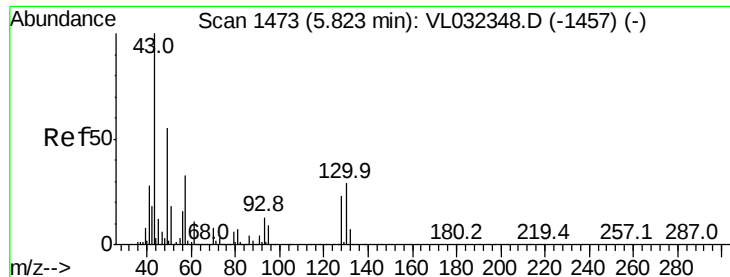


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

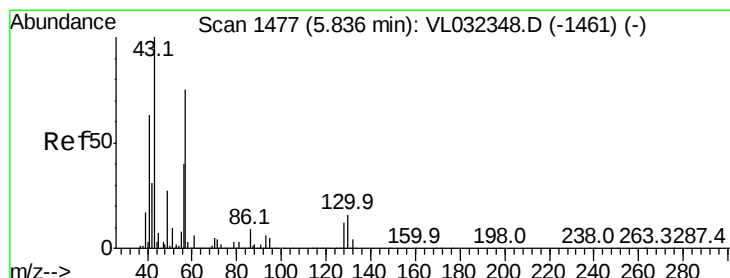
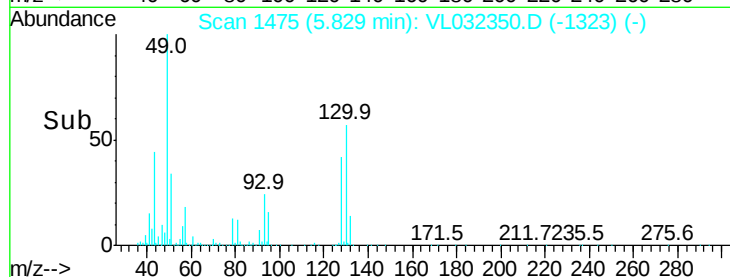
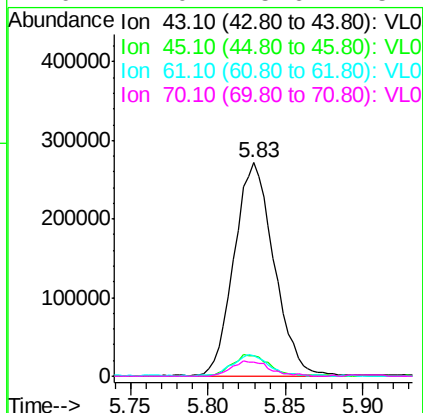
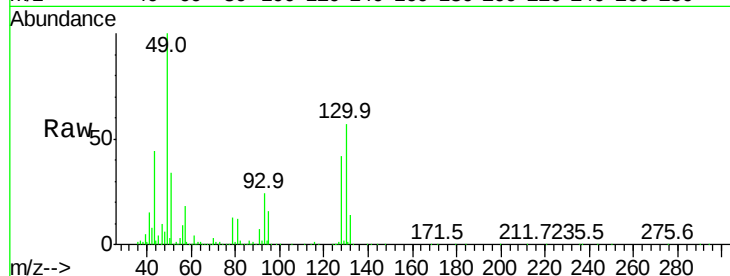




#25
Ethyl Acetate
Concen: 1.005 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

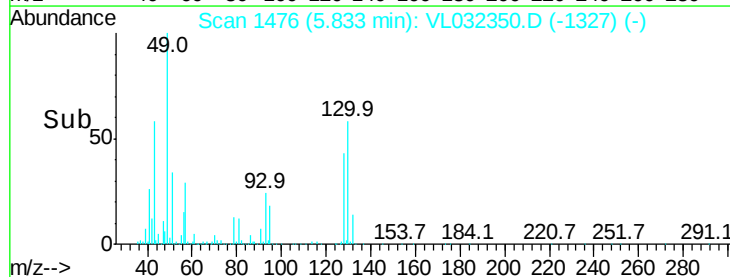
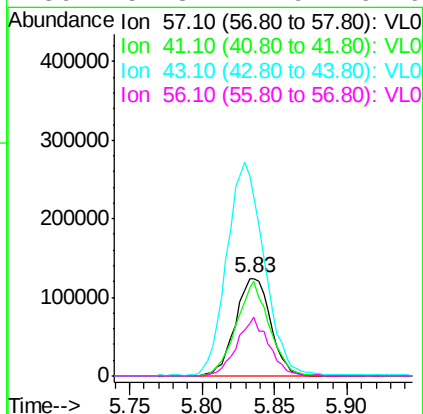
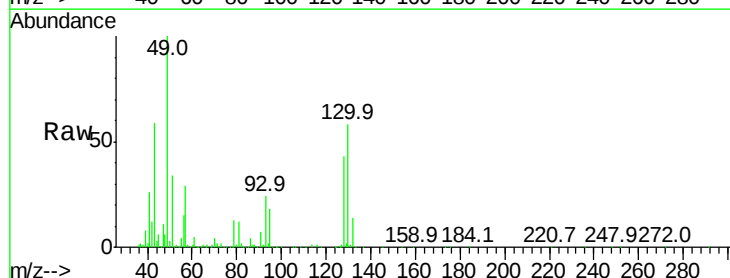
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

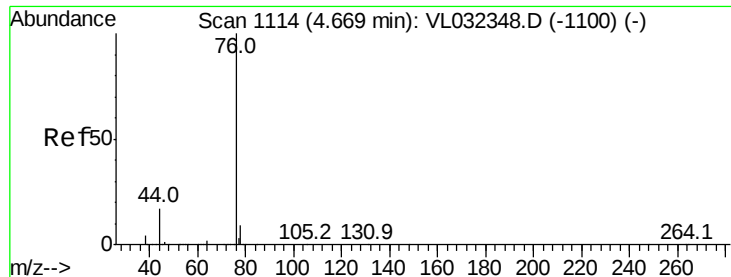
Tgt Ion:	43	Resp:	483752
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.1	12.1
61	9.9	7.4	11.0
70	7.0	5.6	8.4



#26
Hexane
Concen: 0.966 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion:	57	Resp:	210356
Ion	Ratio	Lower	Upper
57	100		
41	91.2	68.1	102.1
43	233.7	177.4	266.2
56	54.3	41.9	62.9





#27

Carbon Disulfide

Concen: 0.954 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

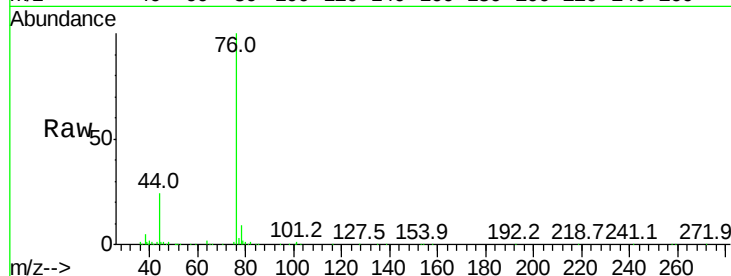
Tgt Ion: 76 Resp: 188858

Ion Ratio Lower Upper

76 100

44 23.0 14.0 21.0#

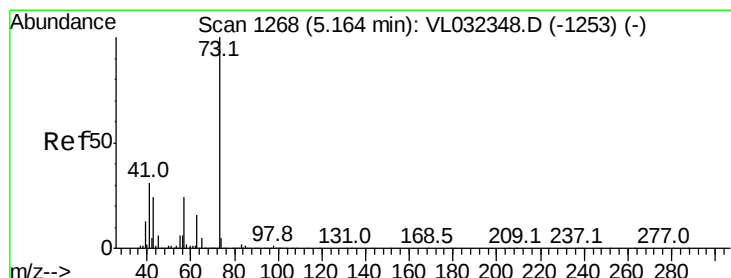
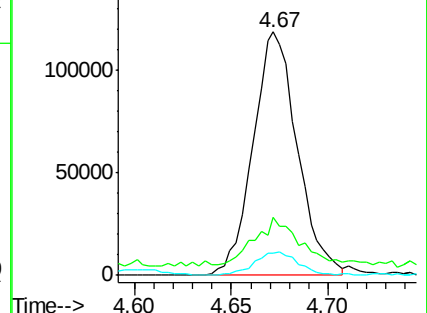
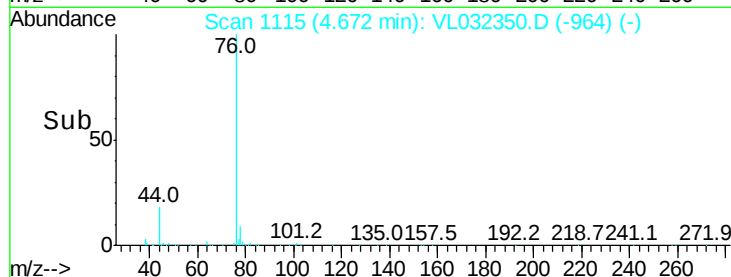
78 9.7 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.926 ppbv

RT: 5.17 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VL032350.D

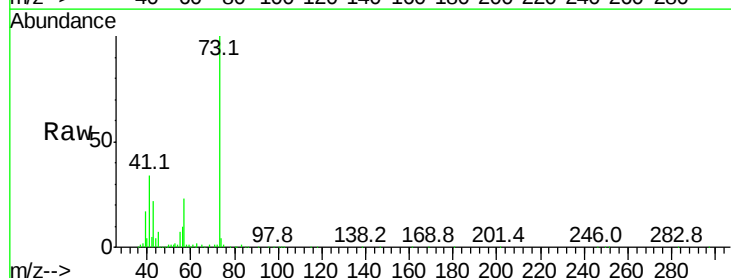
Acq: 15 Aug 2018 11:17

Tgt Ion: 73 Resp: 272933

Ion Ratio Lower Upper

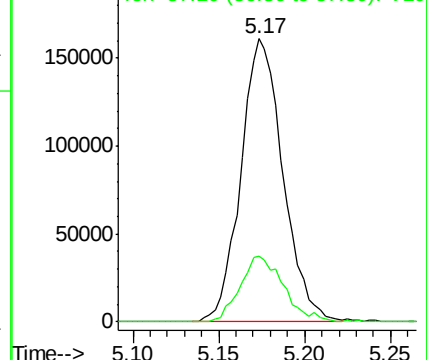
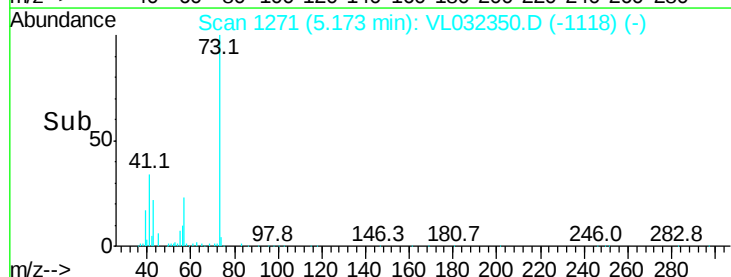
73 100

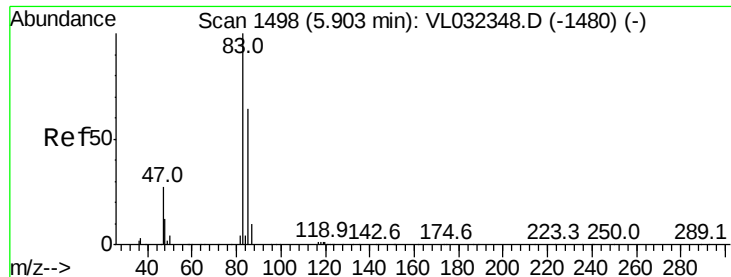
57 24.3 19.4 29.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 1.035 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

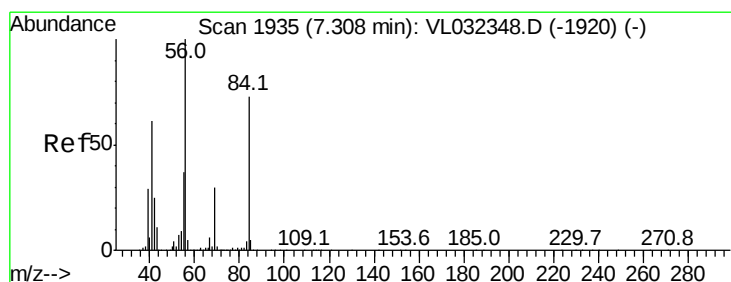
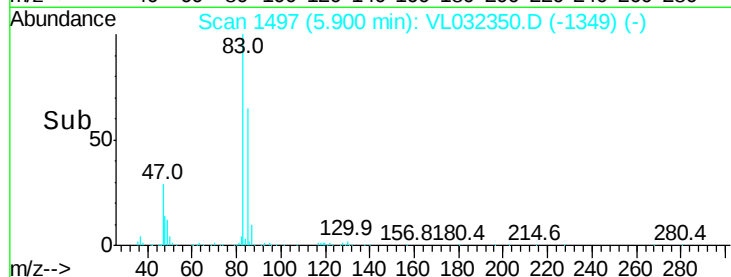
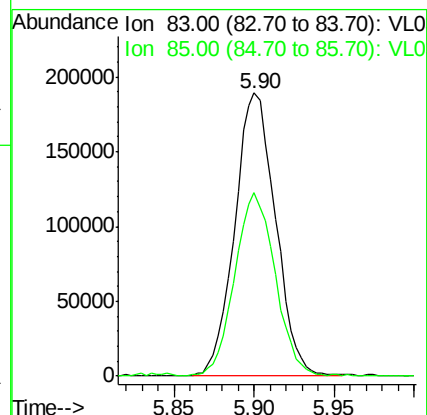
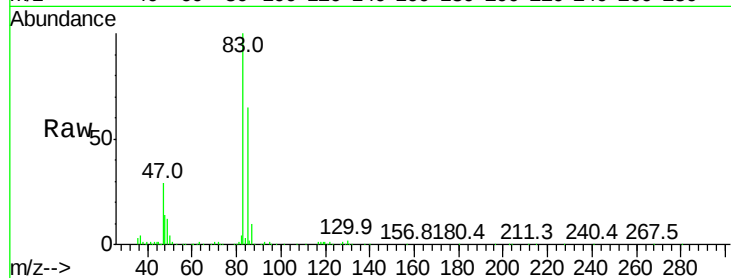
VSTDIC001

Tgt Ion: 83 Resp: 327936

Ion Ratio Lower Upper

83 100

85 64.5 52.9 79.3



#30

Cyclohexane

Concen: 0.878 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

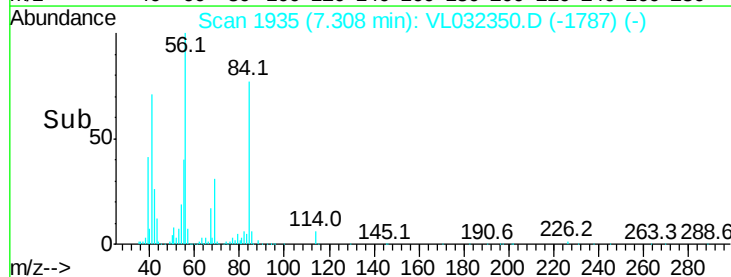
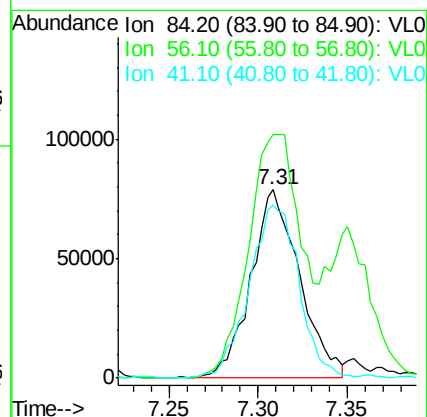
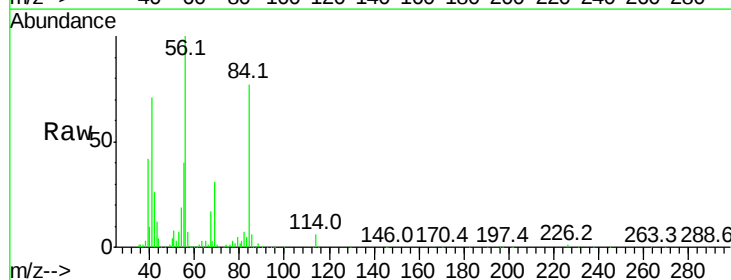
Tgt Ion: 84 Resp: 149270

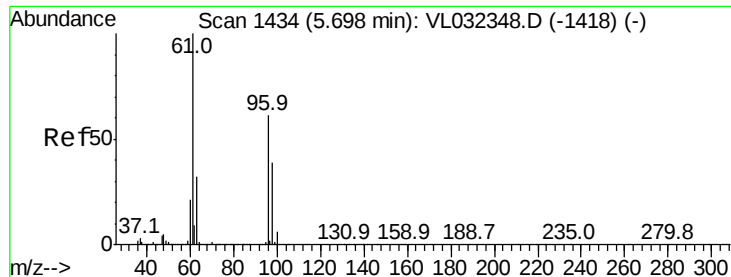
Ion Ratio Lower Upper

84 100

56 212.5 116.8 175.2#

41 94.8 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 0.998 ppbv

RT: 5.69 min Scan# 1432

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

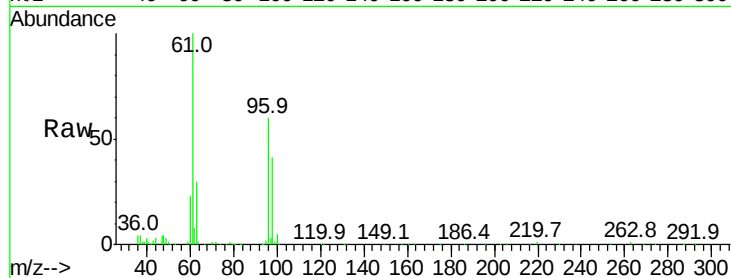
Tgt Ion: 61 Resp: 201640

Ion Ratio Lower Upper

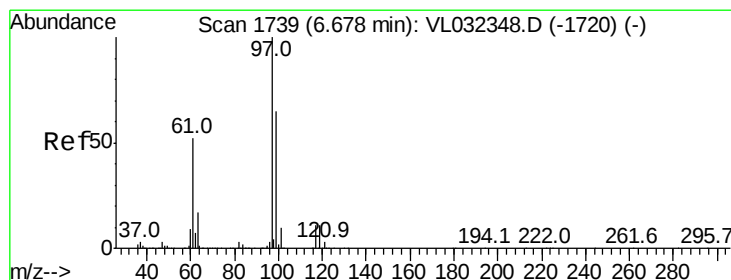
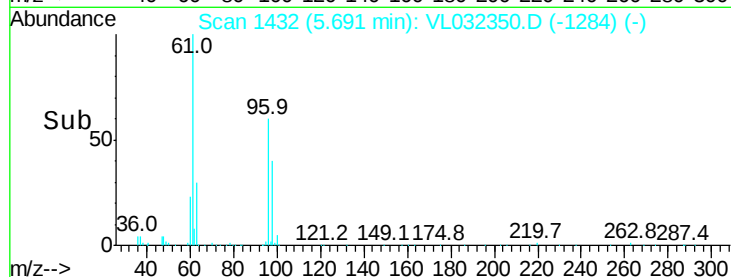
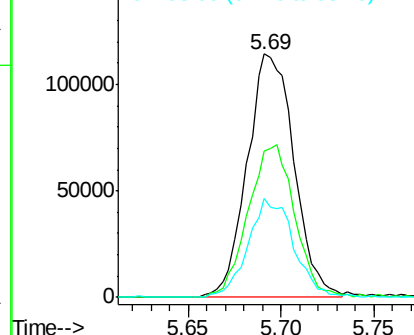
61 100

96 60.1 49.8 74.6

98 40.9 31.8 47.6



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: 1.116 ppbv

RT: 6.67 min Scan# 1738

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

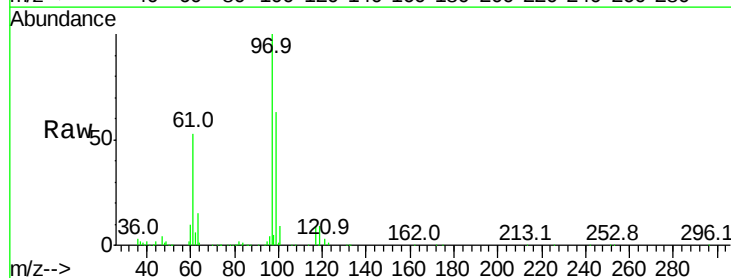
Tgt Ion: 97 Resp: 312940

Ion Ratio Lower Upper

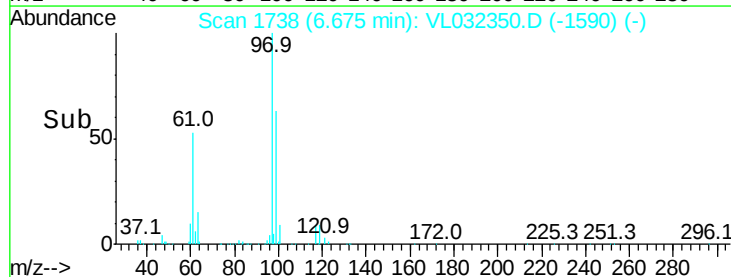
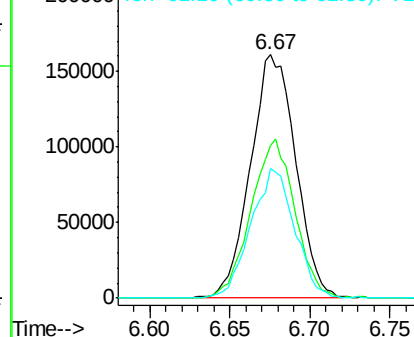
97 100

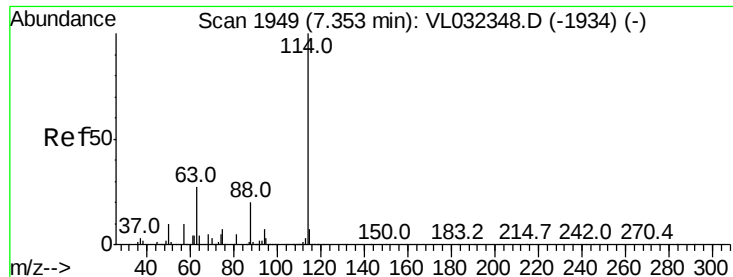
99 63.6 50.9 76.3

61 51.7 41.8 62.6



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: 7.35 min Scan# 1948

Delta R.T. -0.02 min

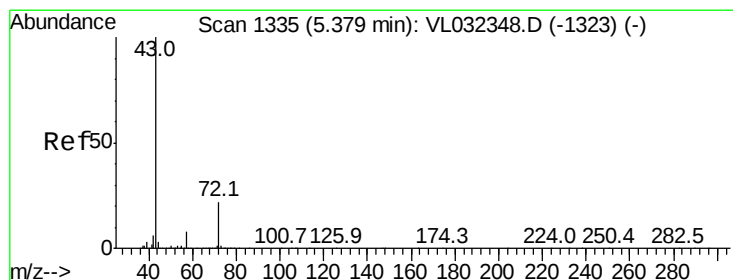
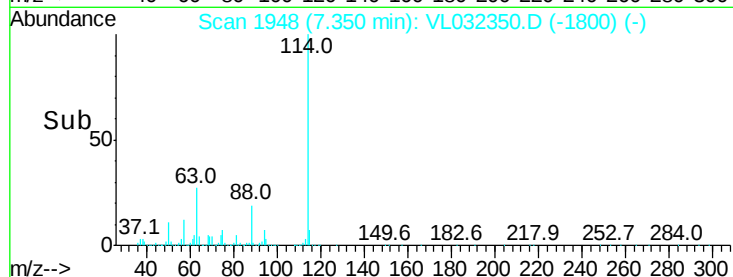
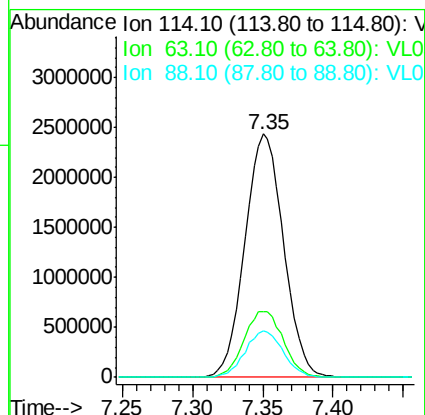
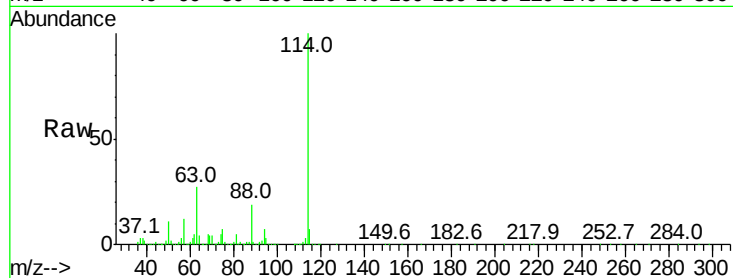
Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:114 Resp: 4674086

Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	18.8	15.3	22.9



#34

2-Butanone

Concen: 1.089 ppbv

RT: 5.39 min Scan# 1338

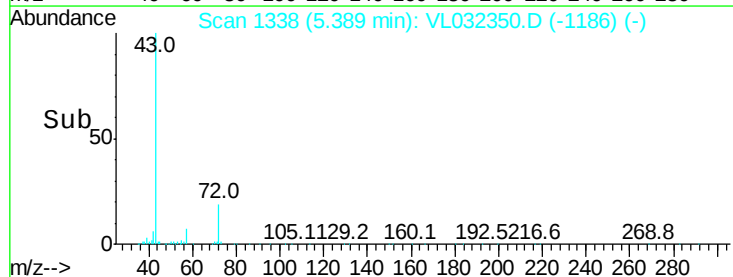
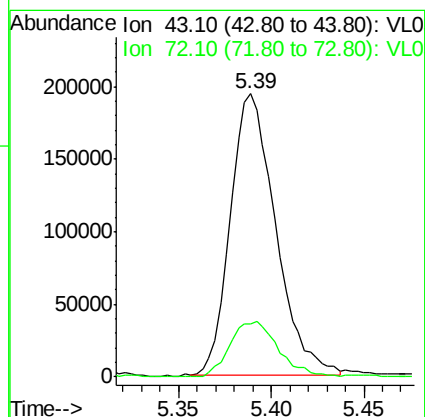
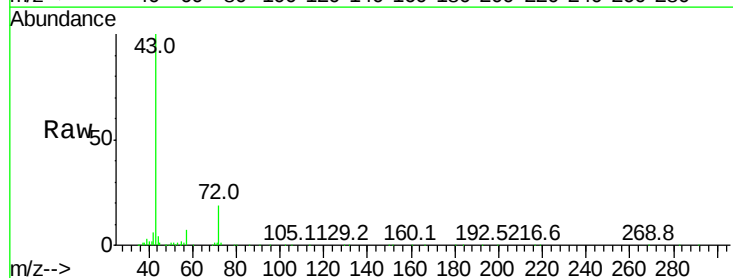
Delta R.T. -0.01 min

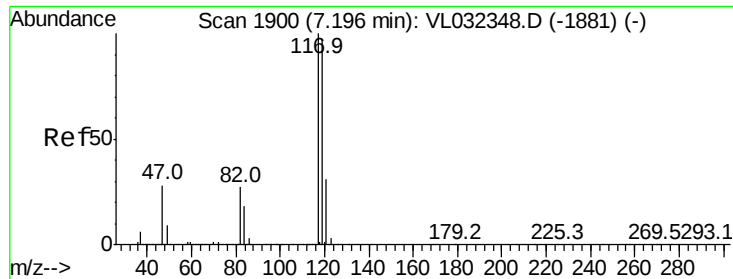
Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 43 Resp: 329506

Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.4	26.2





#35

Carbon Tetrachloride

Concen: 1.112 ppbv

RT: 7.19 min Scan# 1899

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

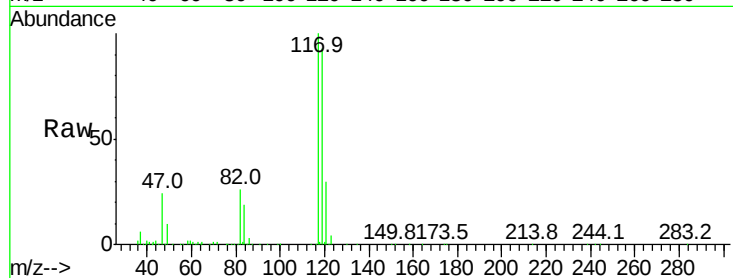
Tgt Ion: 117 Resp: 295223

Ion Ratio Lower Upper

117 100

119 93.5 76.1 114.1

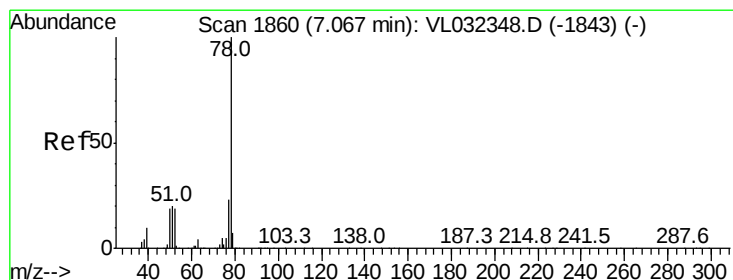
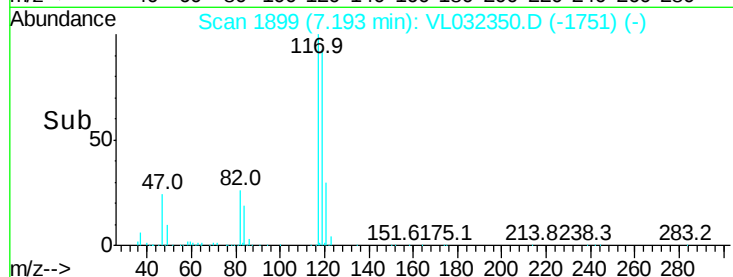
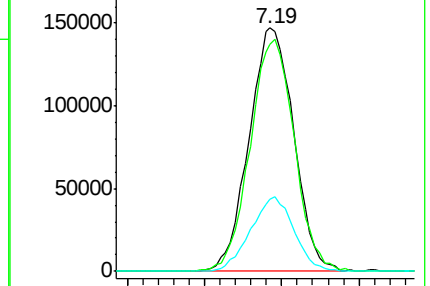
121 29.6 24.4 36.6



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: 0.987 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

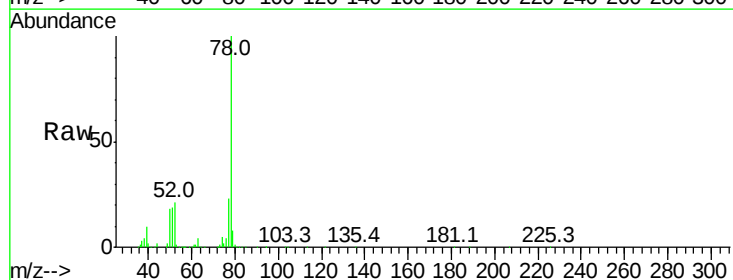
Tgt Ion: 78 Resp: 406774

Ion Ratio Lower Upper

78 100

77 23.3 18.4 27.6

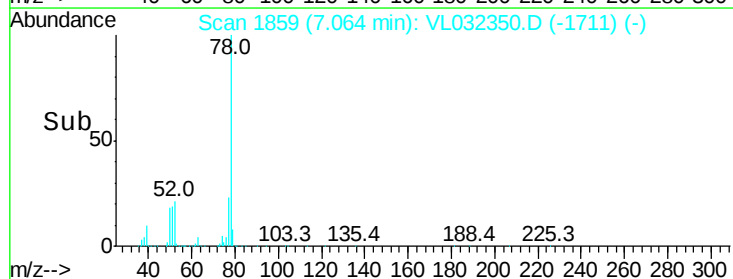
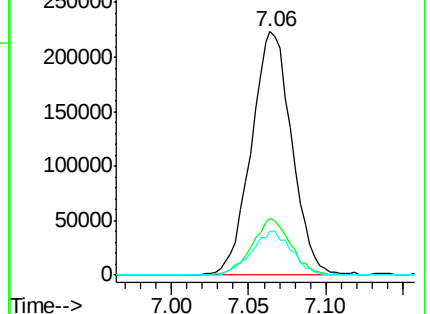
50 17.9 15.3 22.9

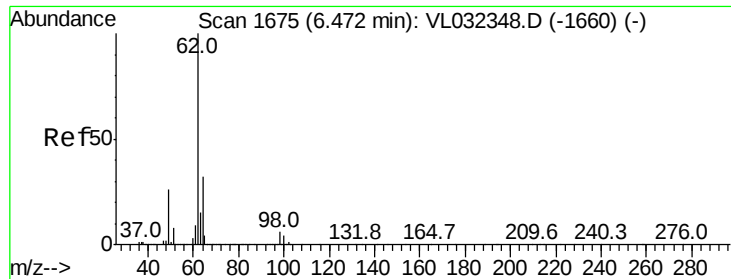


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

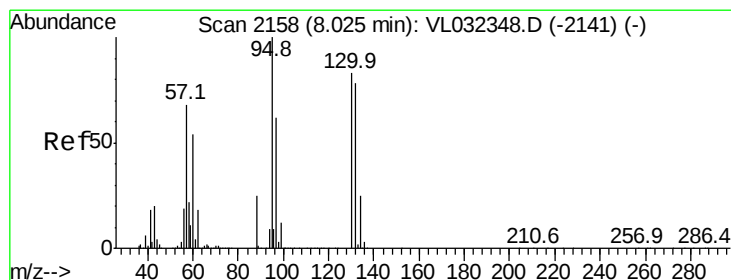
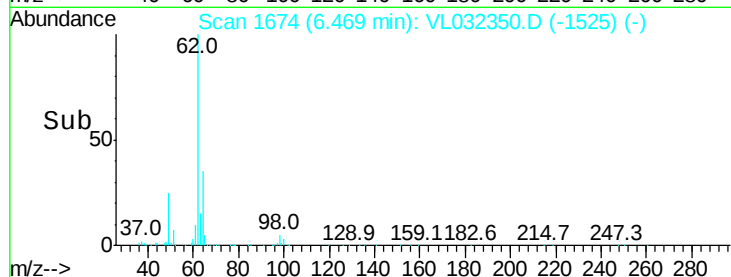
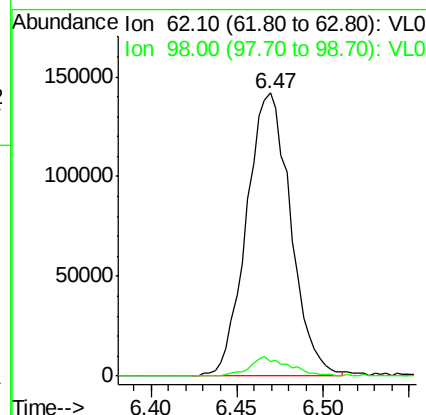
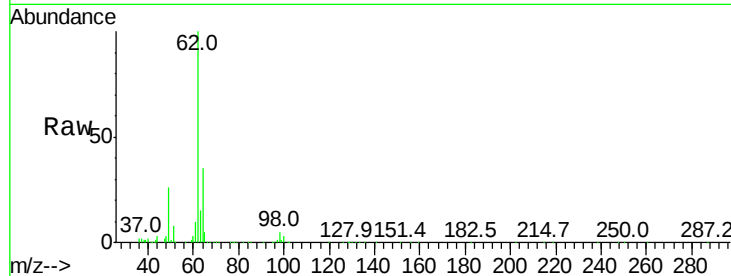




#37
 1,2-Dichloroethane
 Concen: 1.062 ppbv
 RT: 6.47 min Scan# 1674
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

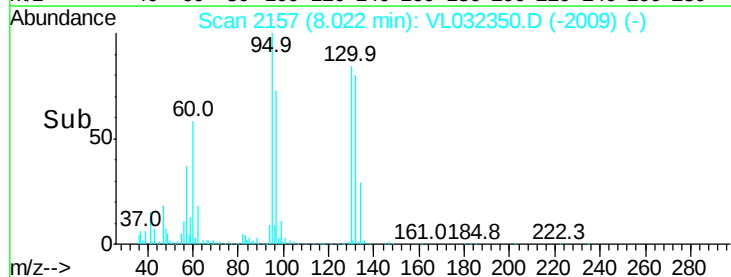
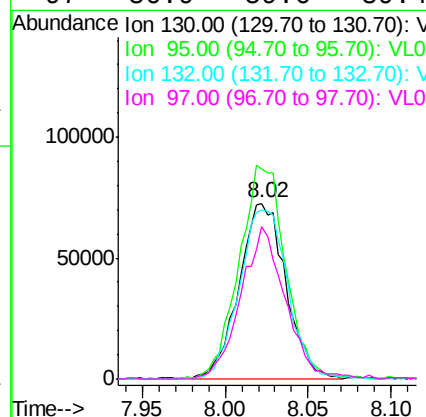
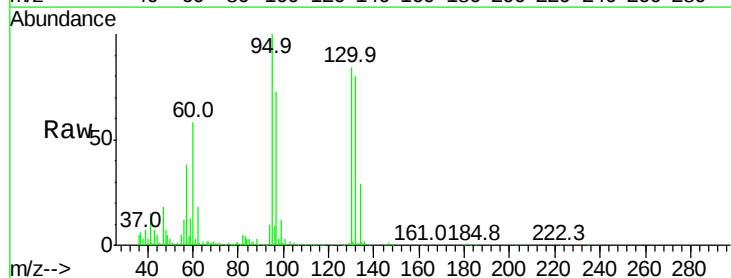
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

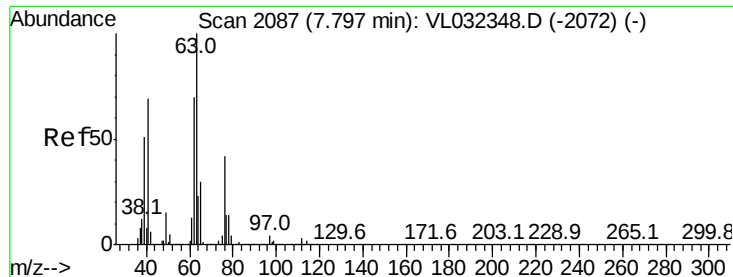
Tgt Ion: 62 Resp: 252769
 Ion Ratio Lower Upper
 62 100
 98 6.4 5.1 7.7



#38
 Trichloroethene
 Concen: 0.895 ppbv
 RT: 8.02 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 130 Resp: 142488
 Ion Ratio Lower Upper
 130 100
 95 119.6 92.9 139.3
 132 95.6 73.0 109.4
 97 86.9 59.6 89.4





#39

1,2-Dichloropropane

Concen: 0.829 ppbv

RT: 7.79 min Scan# 2086

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

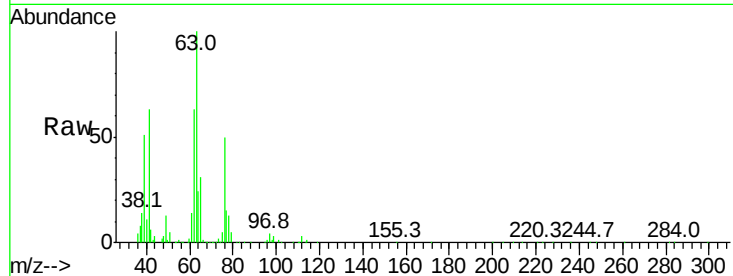
Tgt Ion: 63 Resp: 171853

Ion Ratio Lower Upper

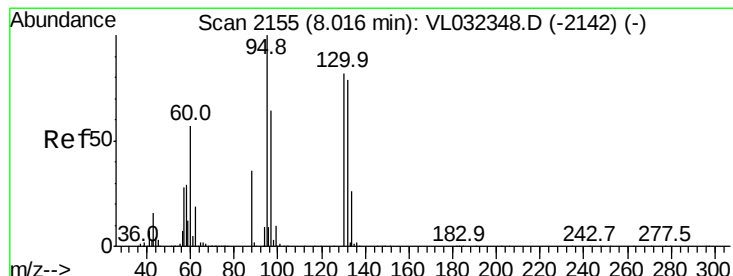
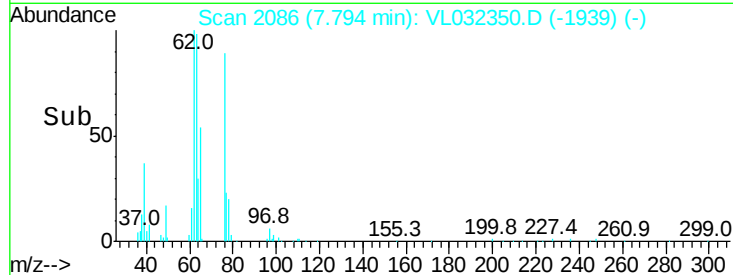
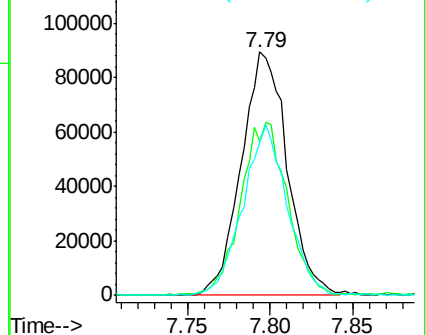
63 100

41 62.8 52.5 78.7

62 62.9 54.6 81.8



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: 0.381 ppbv

RT: 8.04 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 88 Resp: 23173

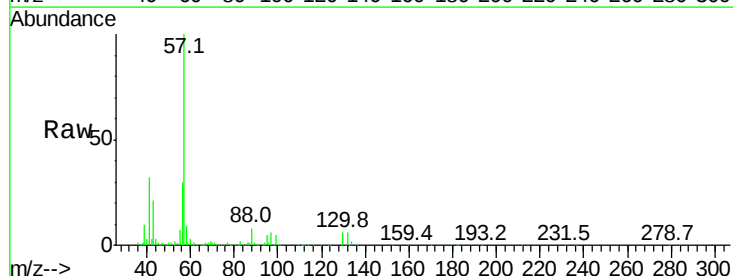
Ion Ratio Lower Upper

88 100

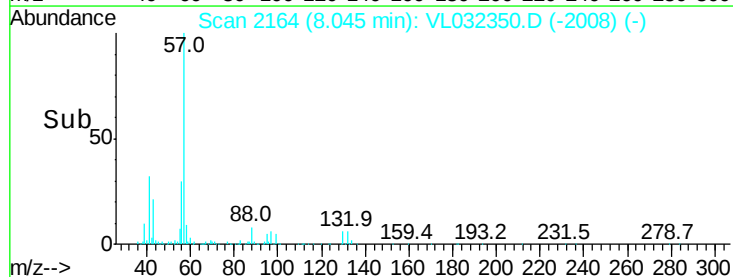
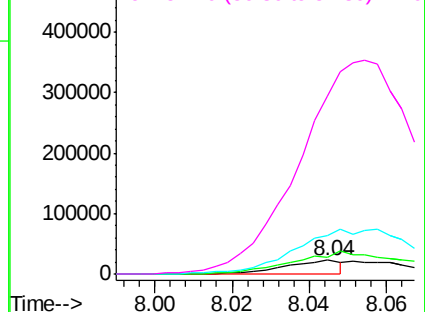
58 0.0 120.5 180.7#

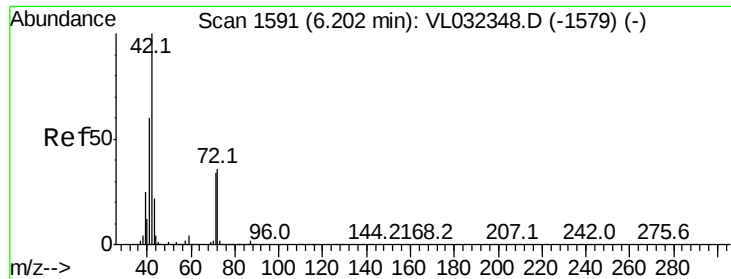
43 0.0 246.2 369.2#

57 0.0 1097.4 1646.2#



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

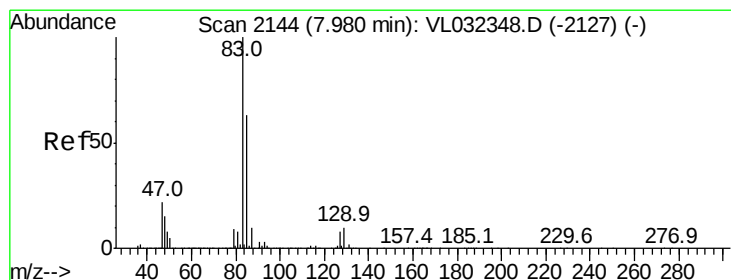
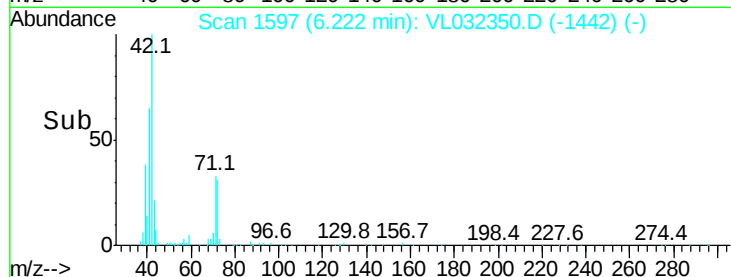
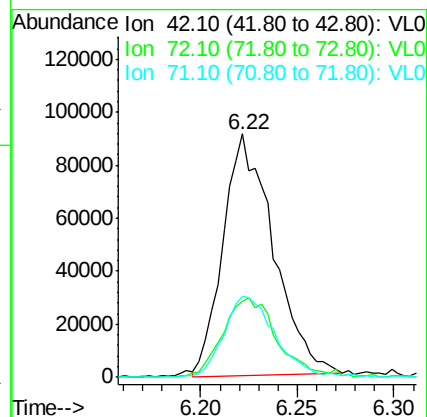
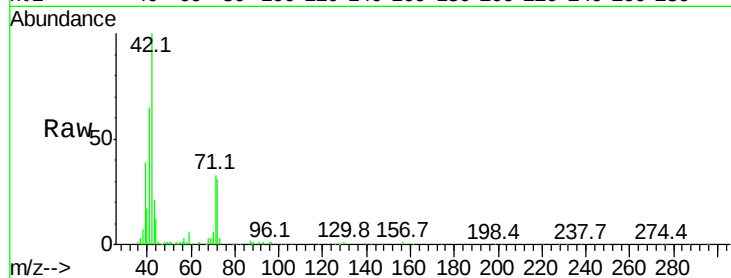




#41
Tetrahydrofuran
Concen: 0.964 ppbv
RT: 6.22 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

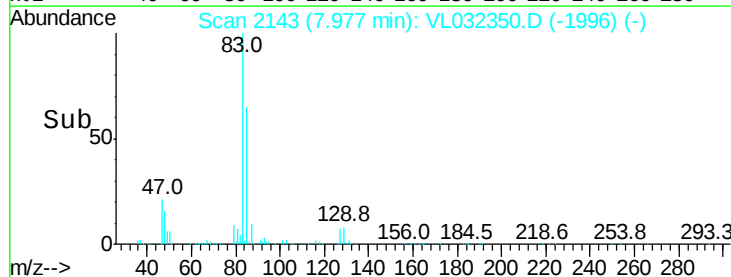
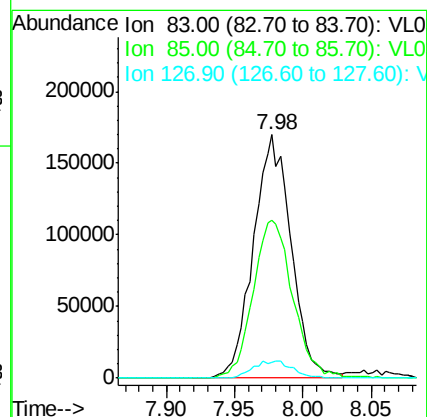
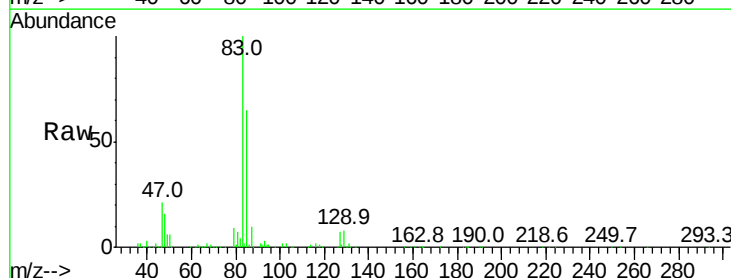
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

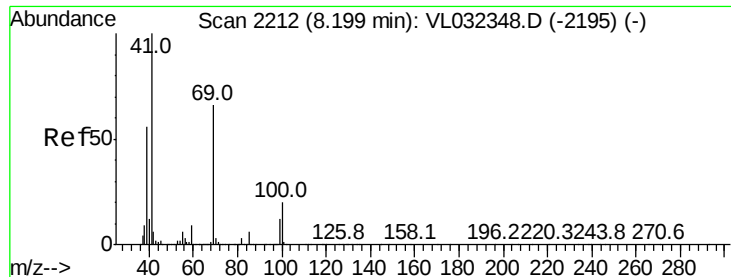
Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.6	28.6	42.8
71	34.8	27.8	41.6



#42
Bromodichloromethane
Concen: 0.847 ppbv
RT: 7.98 min Scan# 2143
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.7	76.1
127	6.7	6.0	9.0





#43

Methyl Methacrylate

Concen: 0.780 ppbv

RT: 8.20 min Scan# 2213

Delta R.T. -0.02 min

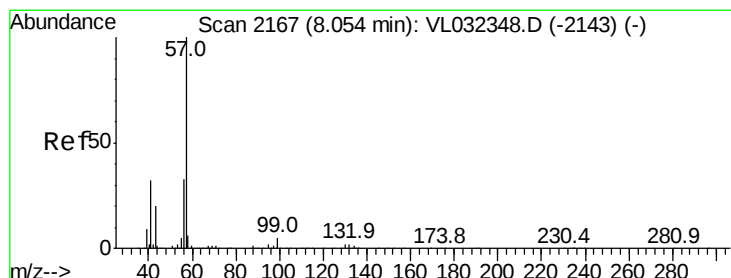
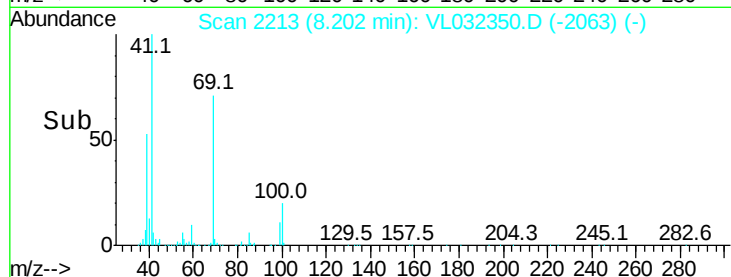
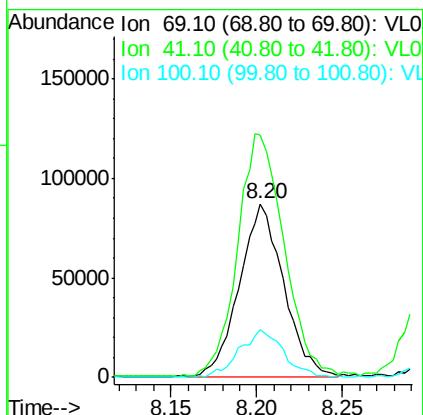
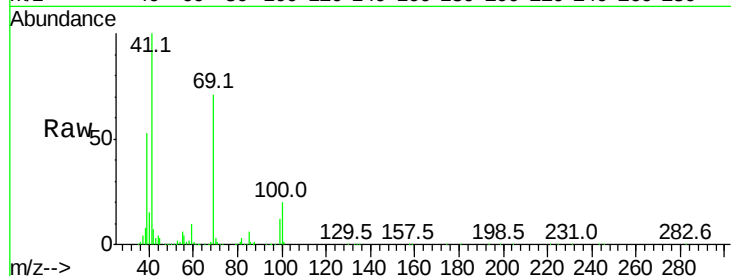
Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 154284

Ion	Ratio	Lower	Upper
69	100		
41	149.8	120.6	180.8
100	28.1	23.2	34.8



#44

2,2,4-Trimethylpentane

Concen: 0.863 ppbv

RT: 8.05 min Scan# 2167

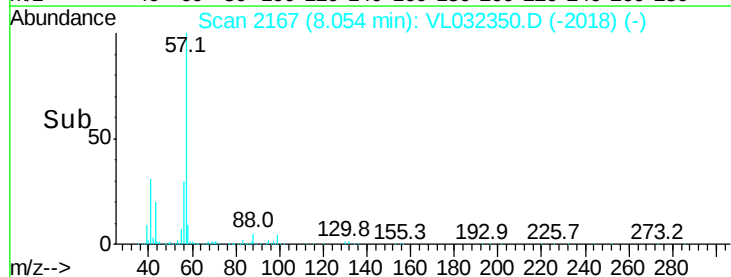
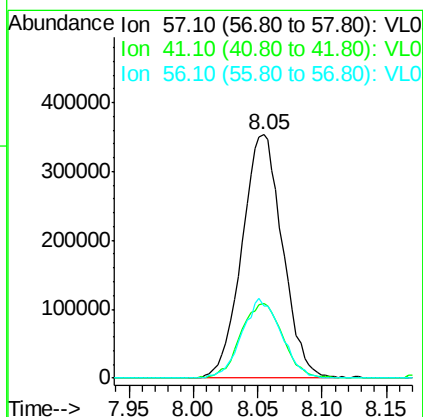
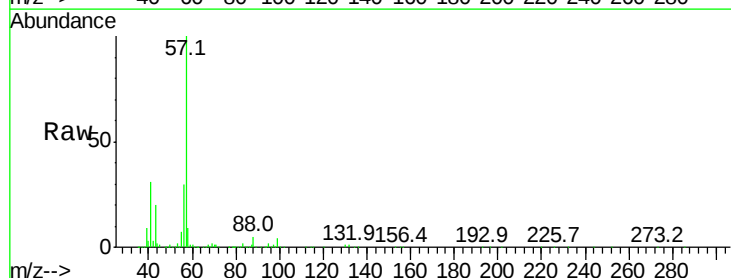
Delta R.T. -0.02 min

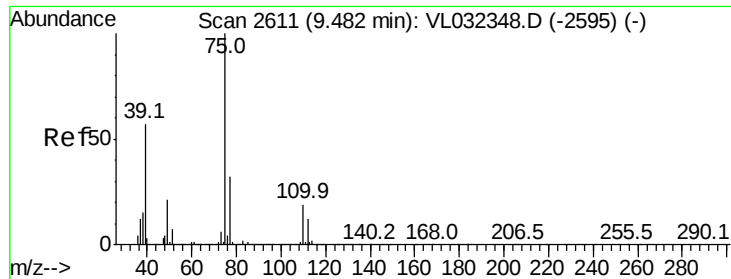
Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 57 Resp: 771067

Ion	Ratio	Lower	Upper
57	100		
41	32.3	24.3	36.5
56	32.1	25.4	38.2





#45

t-1,3-Dichloropropene

Concen: 0.810 ppbv

RT: 9.48 min Scan# 2610

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

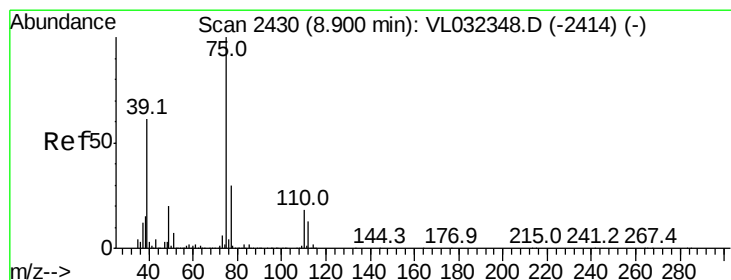
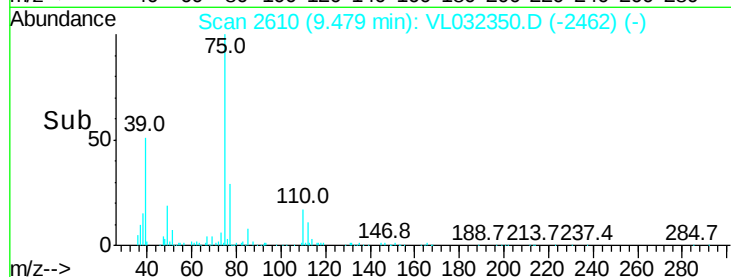
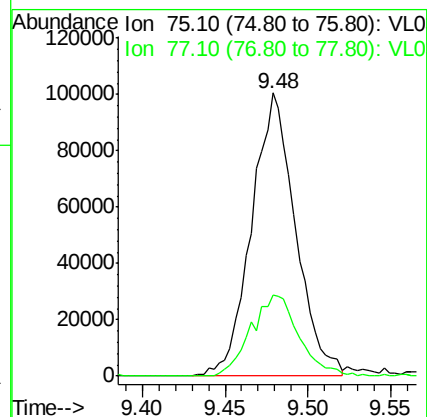
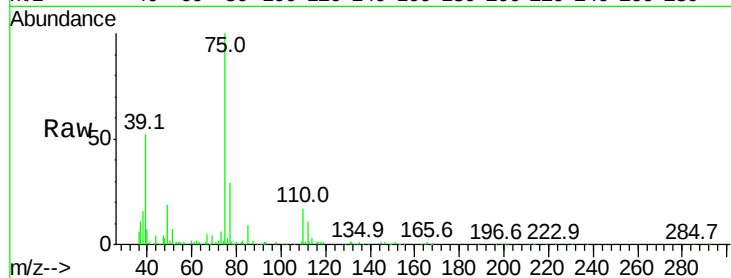
VSTDIC001

Tgt Ion: 75 Resp: 185532

Ion Ratio Lower Upper

75 100

77 28.7 26.2 39.4



#46

cis-1,3-Dichloropropene

Concen: 0.822 ppbv

RT: 8.90 min Scan# 2431

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

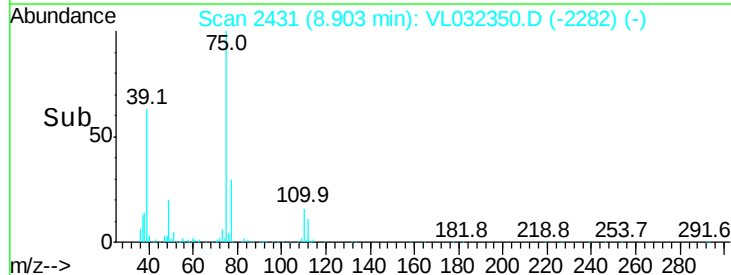
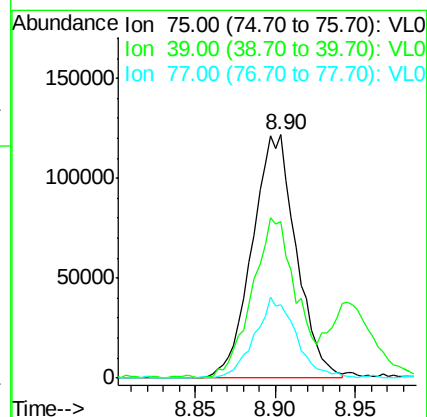
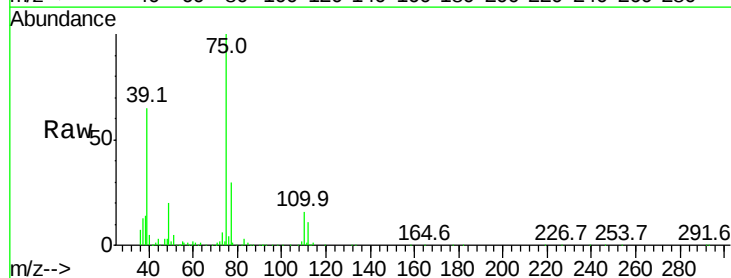
Tgt Ion: 75 Resp: 230680

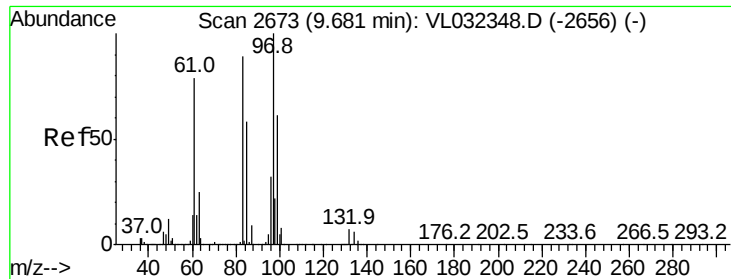
Ion Ratio Lower Upper

75 100

39 64.0 50.9 76.3

77 29.9 25.7 38.5

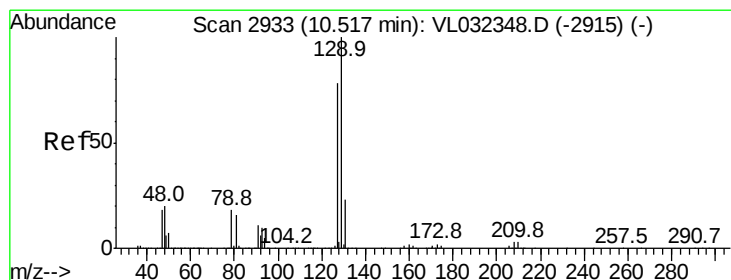
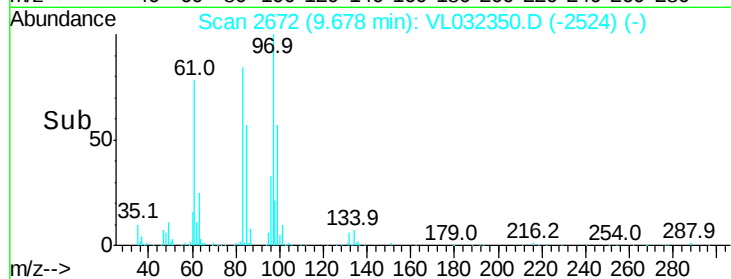
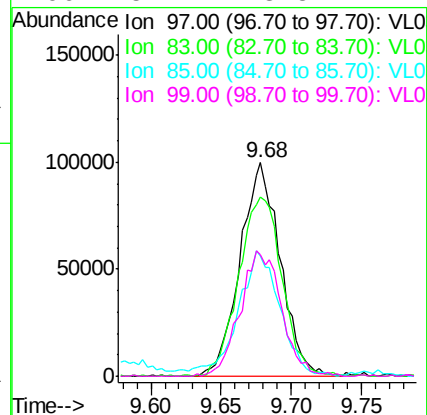
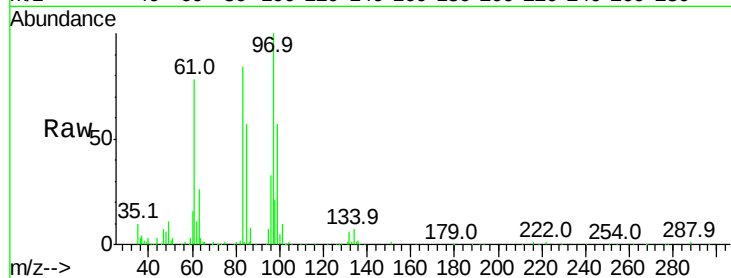




#47
 1,1,2-Trichloroethane
 Concen: 0.986 ppbv
 RT: 9.68 min Scan# 2672
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

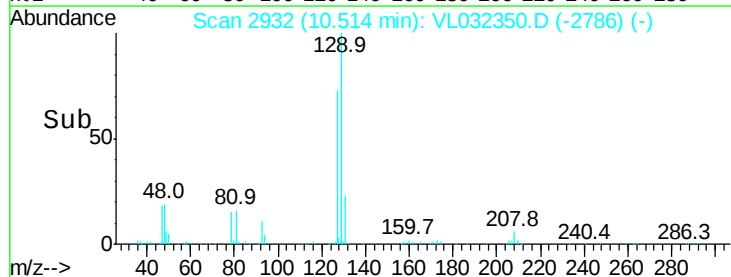
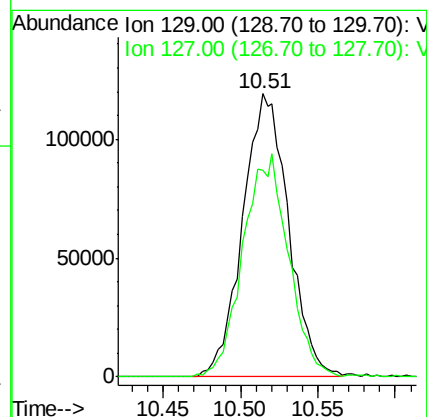
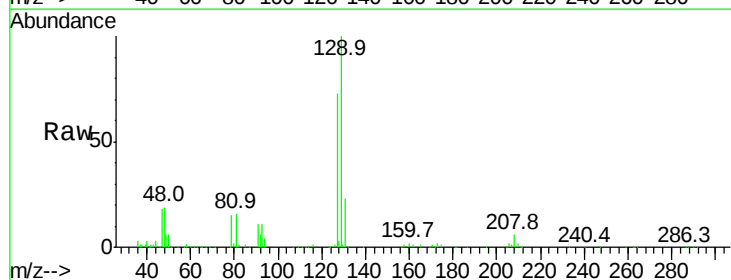
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

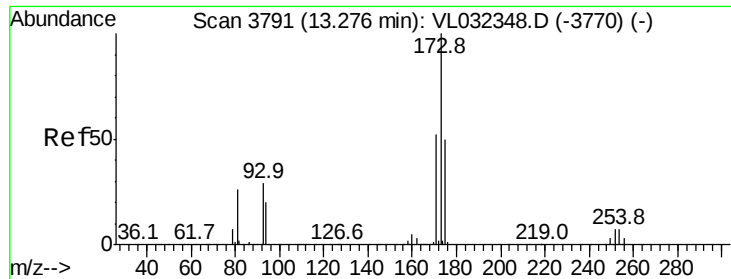
Tgt Ion:	97	Resp:	198623
Ion	Ratio	Lower	Upper
97	100		
83	83.9	73.0	109.6
85	55.9	48.1	72.1
99	57.1	48.5	72.7



#48
 Dibromochloromethane
 Concen: 0.818 ppbv
 RT: 10.51 min Scan# 2932
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion:	129	Resp:	242884
Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.5	118.3





#49

Bromoform

Concen: 0.486 ppbv

RT: 13.27 min Scan# 3788

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

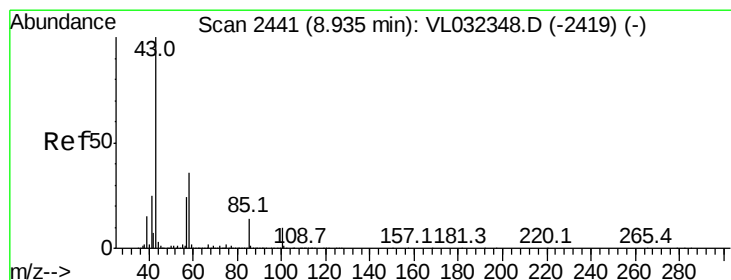
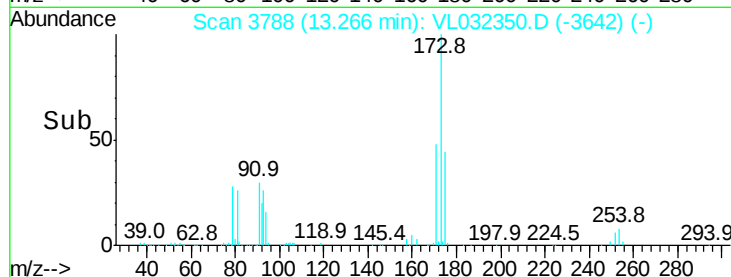
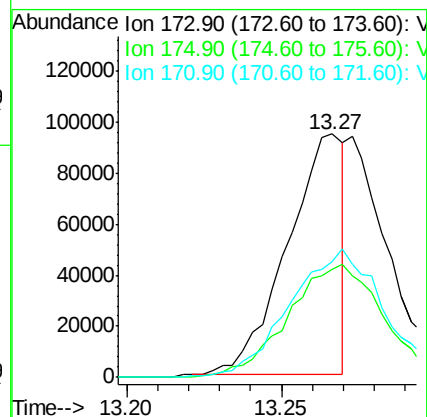
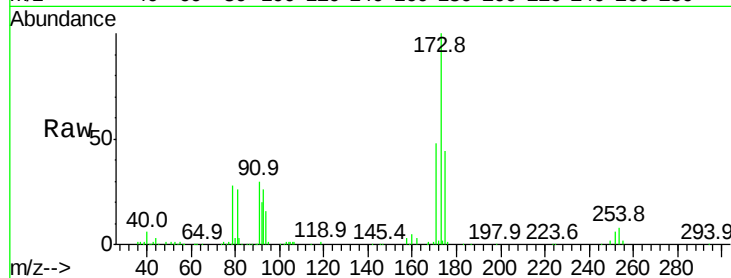
Tgt Ion:173 Resp: 118745

Ion Ratio Lower Upper

173 100

175 0.0 38.9 58.3#

171 0.0 42.2 63.2#



#50

4-Methyl-2-Pentanone

Concen: 0.910 ppbv

RT: 8.95 min Scan# 2445

Delta R.T. -0.01 min

Lab File: VL032350.D

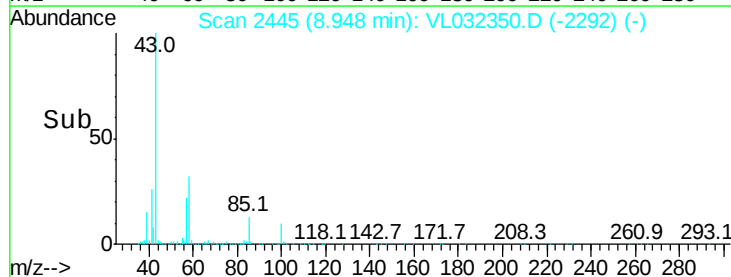
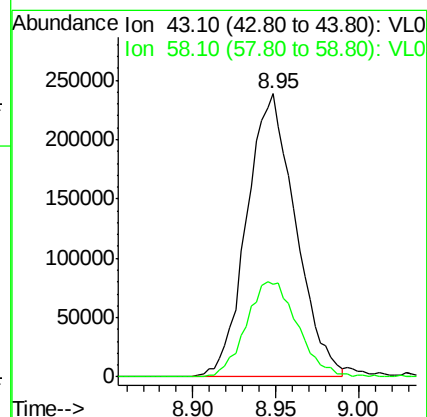
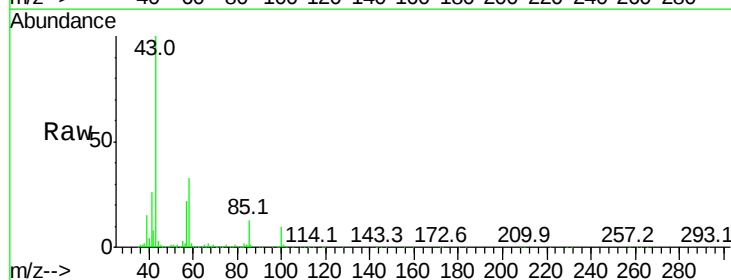
Acq: 15 Aug 2018 11:17

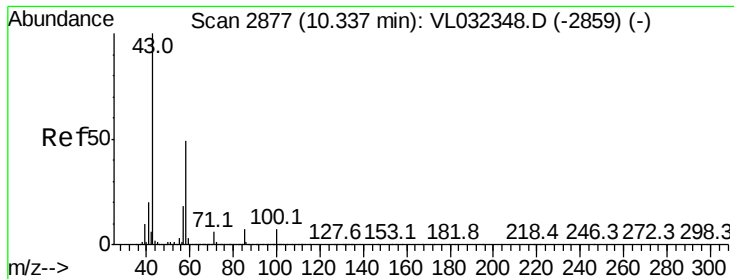
Tgt Ion: 43 Resp: 485857

Ion Ratio Lower Upper

43 100

58 35.9 28.9 43.3

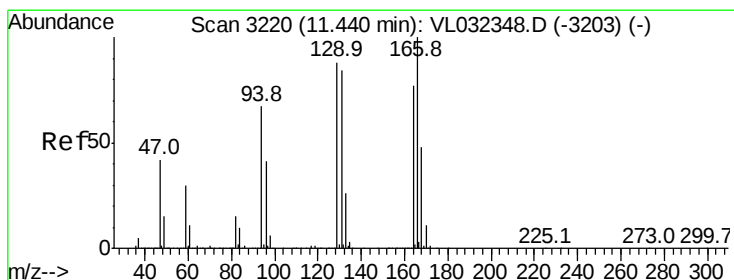
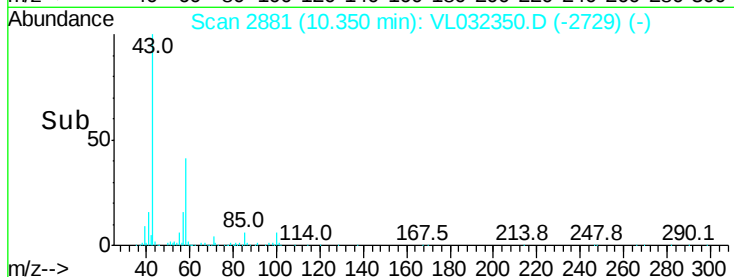
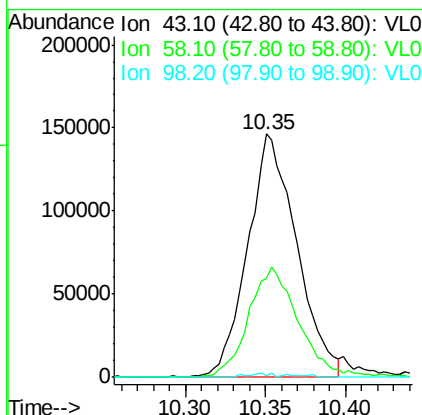
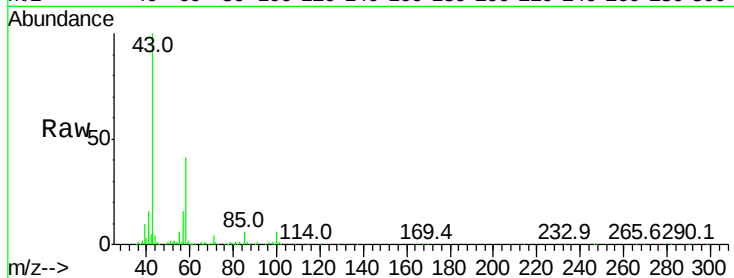




#51
2-Hexanone
Concen: 0.754 ppbv
RT: 10.35 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

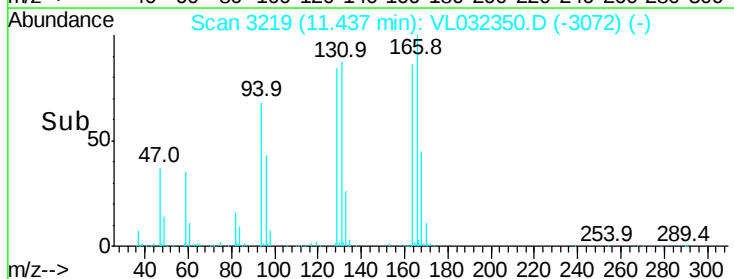
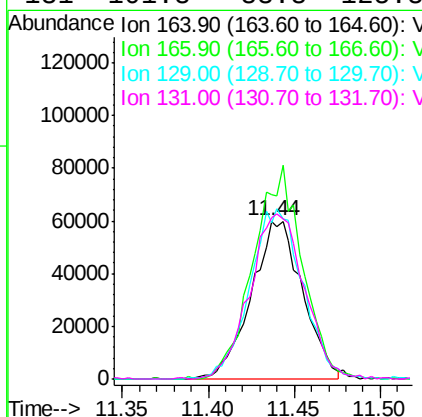
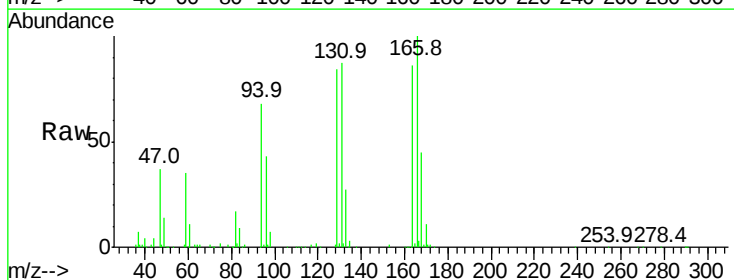
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

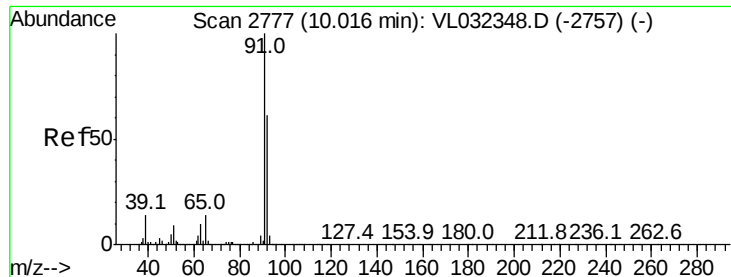
Tgt Ion: 43 Resp: 306663
Ion Ratio Lower Upper
43 100
58 47.1 39.1 58.7
98 1.4 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.896 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion: 164 Resp: 124441
Ion Ratio Lower Upper
164 100
166 115.4 100.0 150.0
129 97.6 87.9 131.9
131 101.8 83.8 125.8





#53

Toluene

Concen: 0.804 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

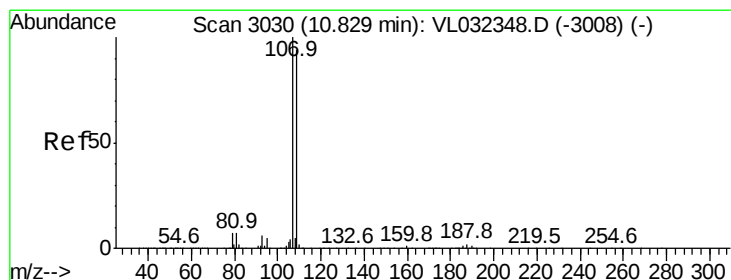
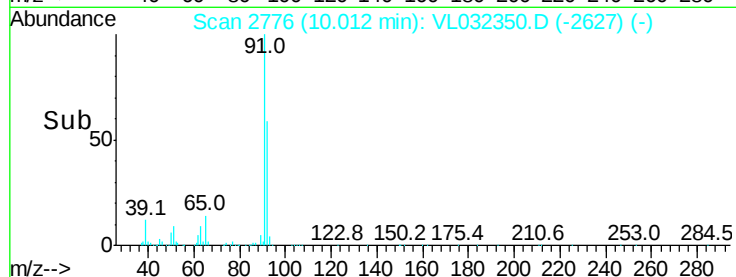
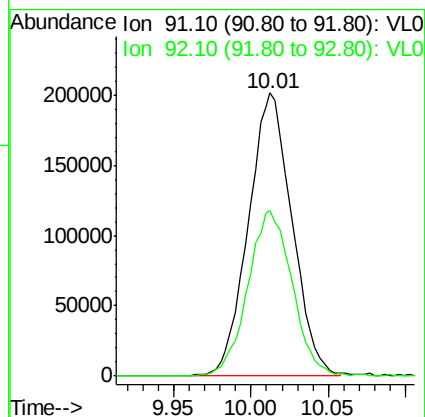
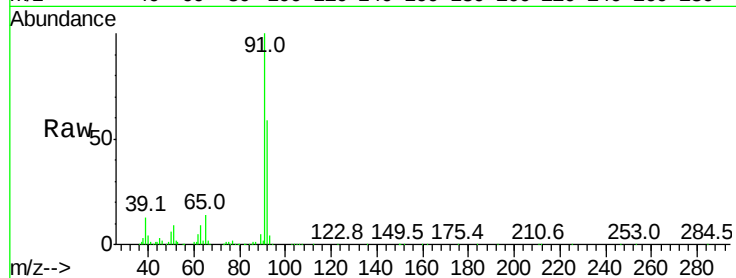
VSTDIC001

Tgt Ion: 91 Resp: 395772

Ion Ratio Lower Upper

91 100

92 59.6 48.6 72.8



#54

1,2-Dibromoethane

Concen: 0.836 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.03 min

Lab File: VL032350.D

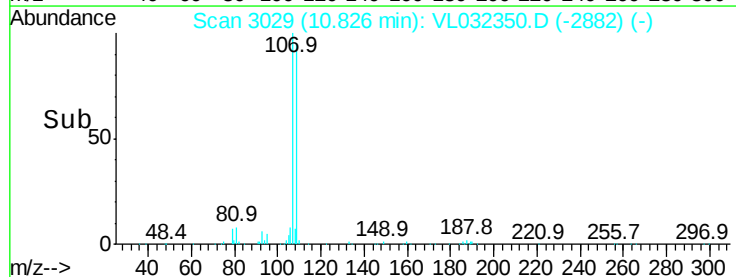
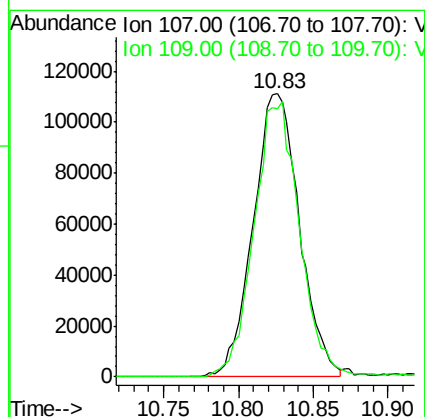
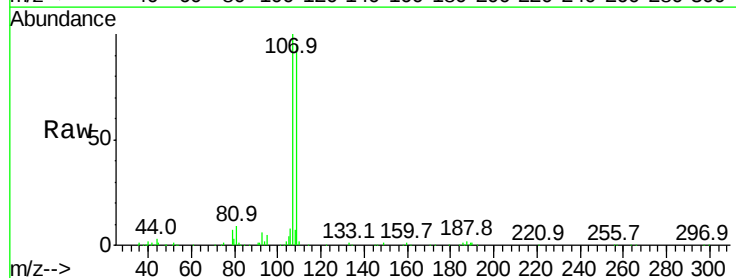
Acq: 15 Aug 2018 11:17

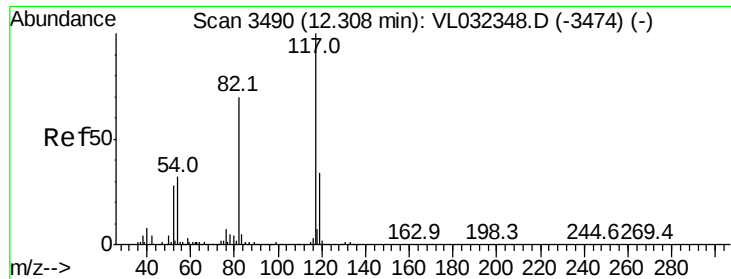
Tgt Ion: 107 Resp: 239391

Ion Ratio Lower Upper

107 100

109 94.8 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3489

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

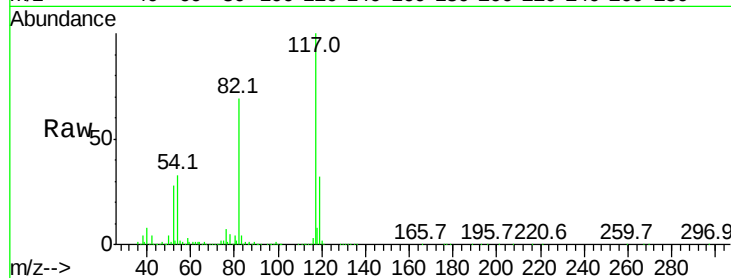
Tgt Ion:117 Resp: 4567640

Ion Ratio Lower Upper

117 100

82 67.4 52.6 78.8

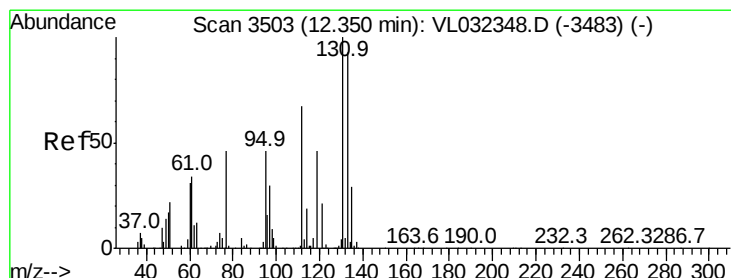
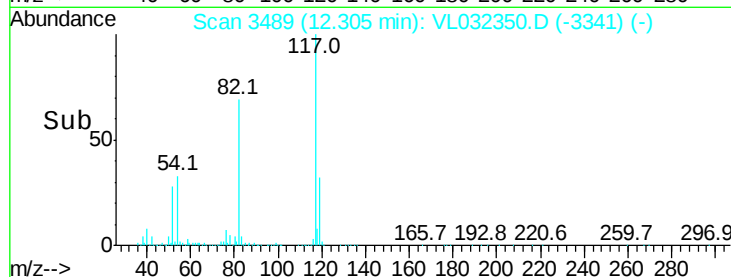
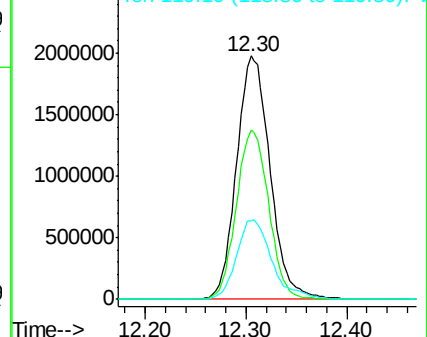
119 34.6 25.7 38.5



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.046 ppbv

RT: 12.34 min Scan# 3501

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

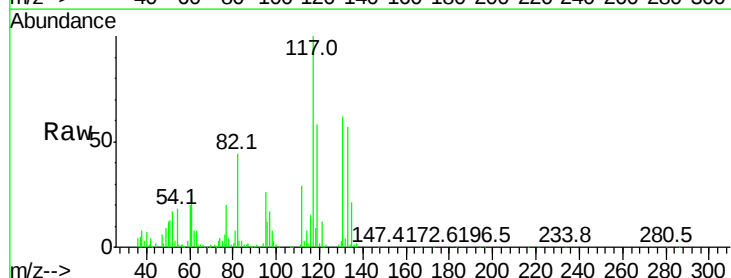
Tgt Ion:131 Resp: 197005

Ion Ratio Lower Upper

131 100

133 97.6 75.8 113.6

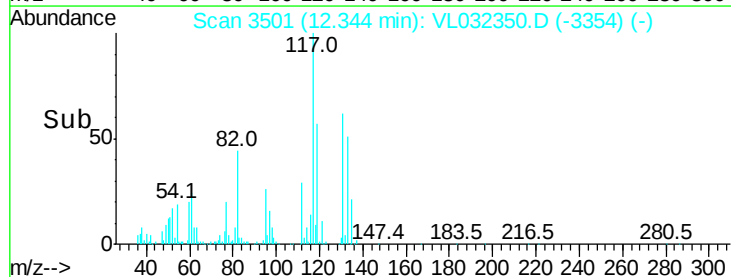
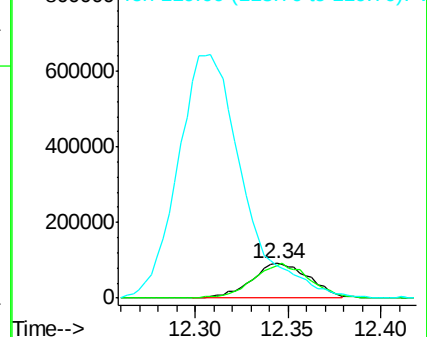
119 802.0 48.1 72.1#

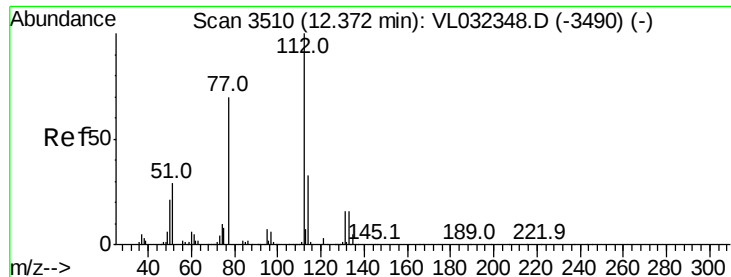


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 1.040 ppbv

RT: 12.37 min Scan# 3509

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

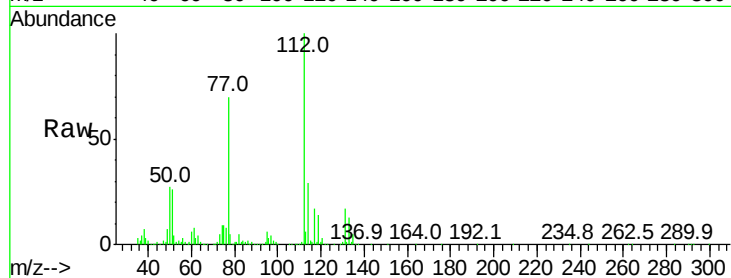
Tgt Ion: 112 Resp: 369276

Ion Ratio Lower Upper

112 100

77 69.4 56.5 84.7

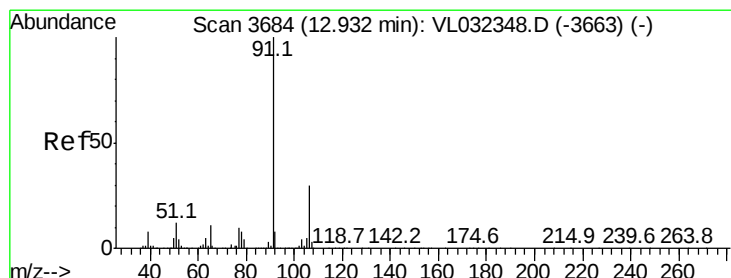
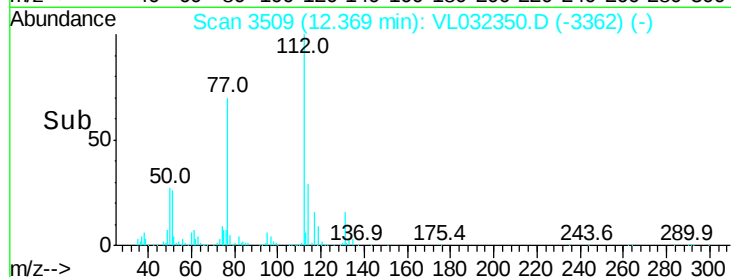
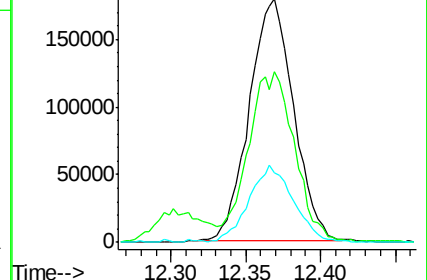
114 28.3 28.4 34.7#



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: 0.969 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. -0.02 min

Lab File: VL032350.D

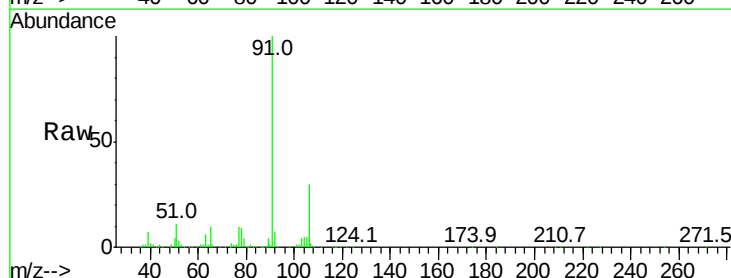
Acq: 15 Aug 2018 11:17

Tgt Ion: 91 Resp: 555143

Ion Ratio Lower Upper

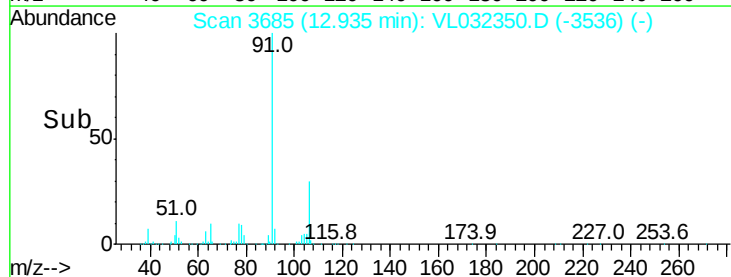
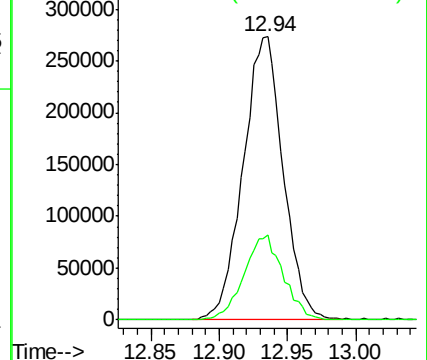
91 100

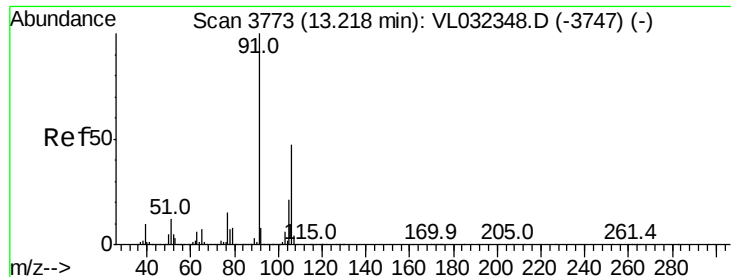
106 29.9 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.726 ppbv

RT: 13.22 min Scan# 3773

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

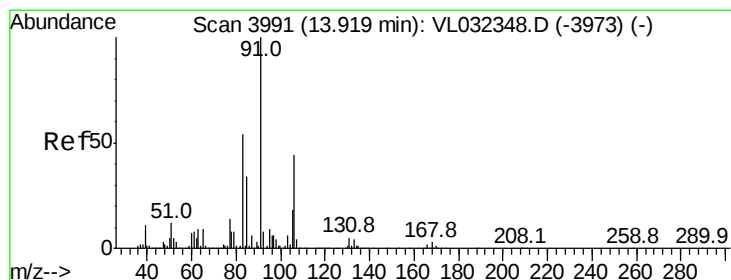
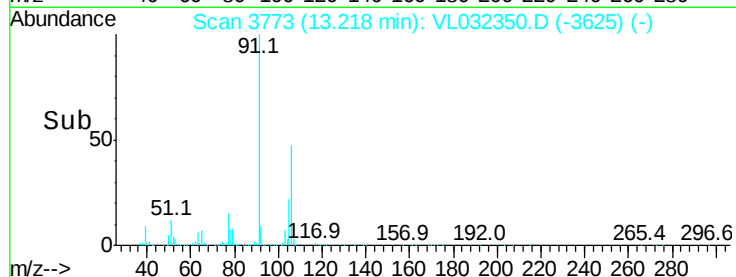
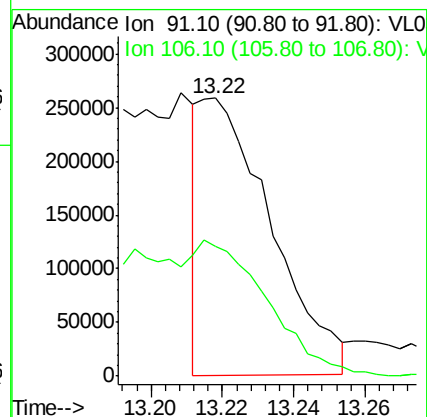
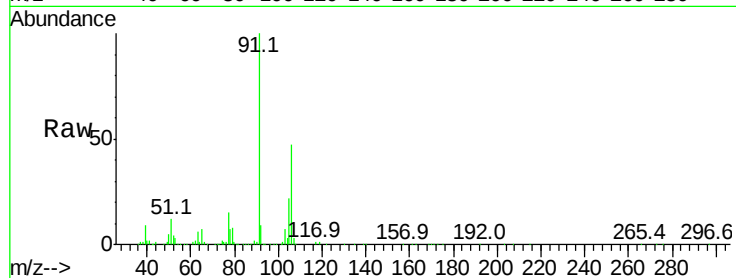
VSTDIC001

Tgt Ion: 91 Resp: 354010

Ion Ratio Lower Upper

91 100

106 127.0 36.4 54.6#



#60

o-Xylene

Concen: 1.042 ppbv

RT: 13.92 min Scan# 3991

Delta R.T. -0.02 min

Lab File: VL032350.D

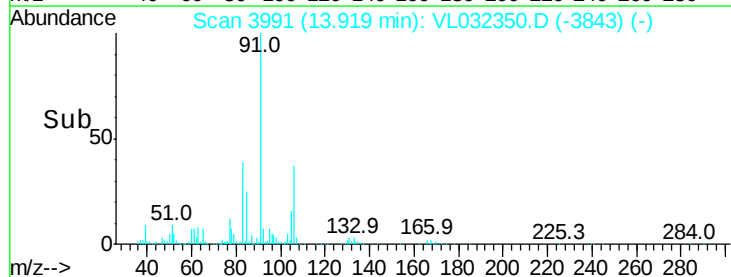
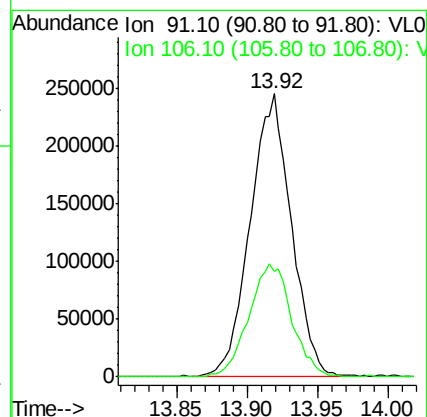
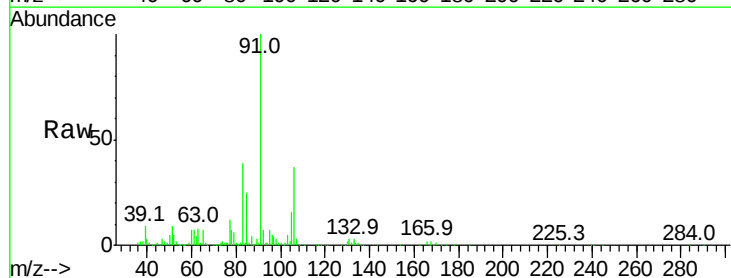
Acq: 15 Aug 2018 11:17

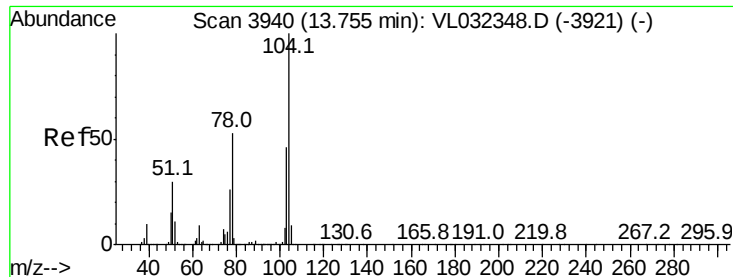
Tgt Ion: 91 Resp: 497997

Ion Ratio Lower Upper

91 100

106 41.7 22.4 67.0





#61

Styrene

Concen: 0.875 ppbv

RT: 13.75 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

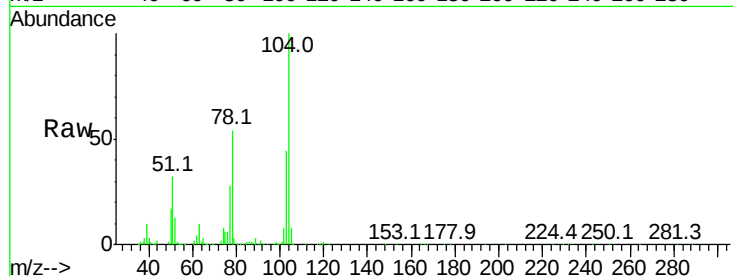
Tgt Ion:104 Resp: 307732

Ion Ratio Lower Upper

104 100

78 54.3 42.6 63.8

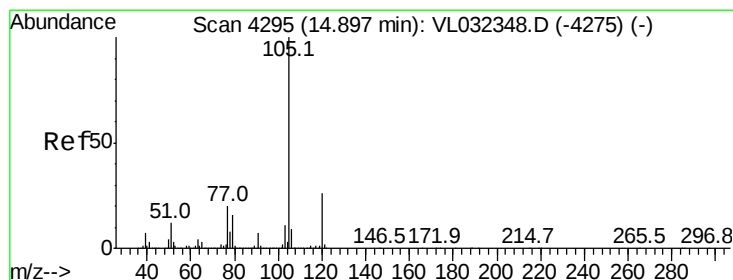
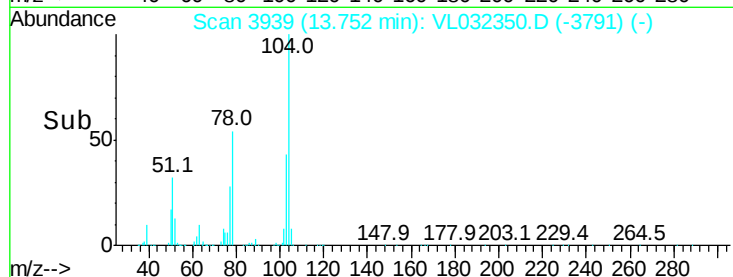
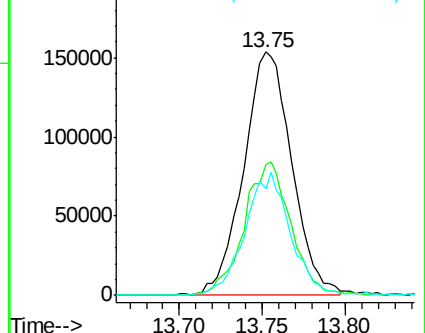
103 48.2 38.0 57.0



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: 1.016 ppbv

RT: 14.89 min Scan# 4294

Delta R.T. -0.02 min

Lab File: VL032350.D

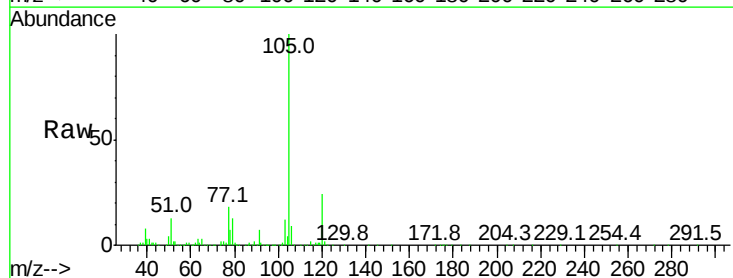
Acq: 15 Aug 2018 11:17

Tgt Ion:105 Resp: 689716

Ion Ratio Lower Upper

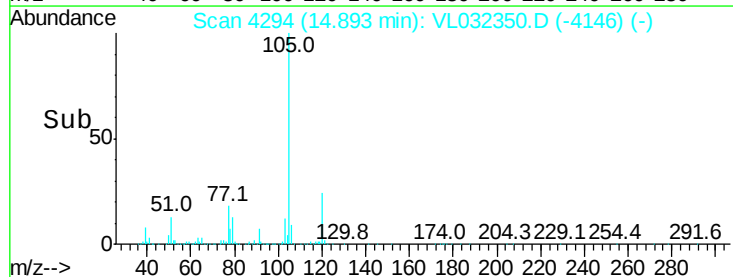
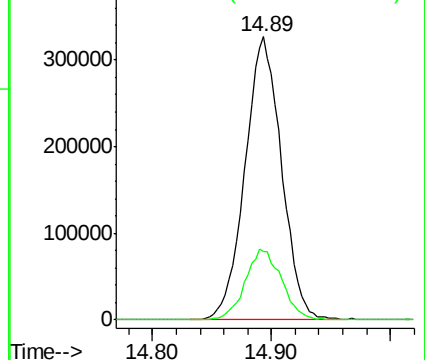
105 100

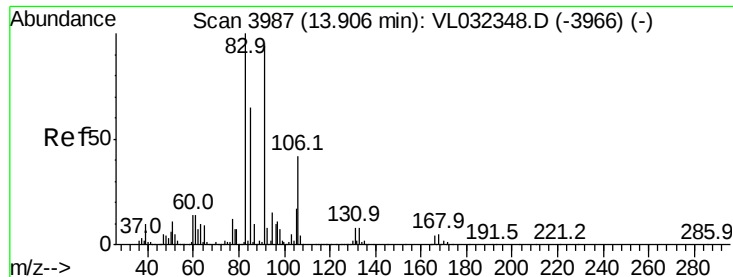
120 25.1 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

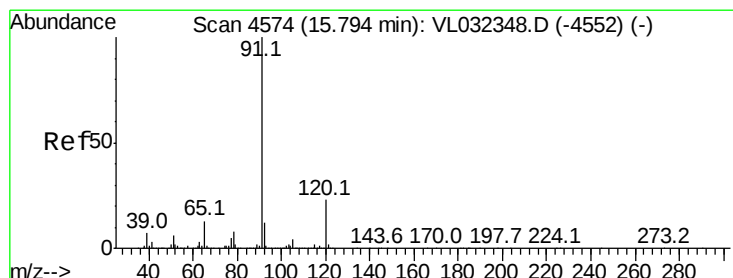
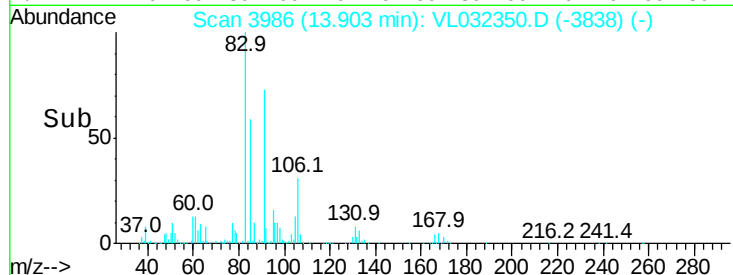
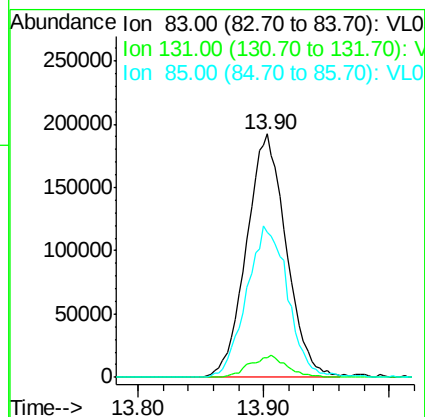
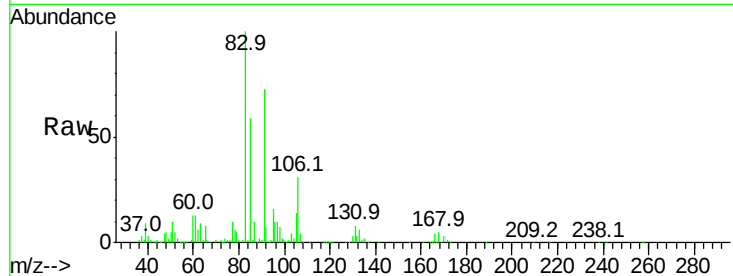




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.089 ppbv
 RT: 13.90 min Scan# 3986
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

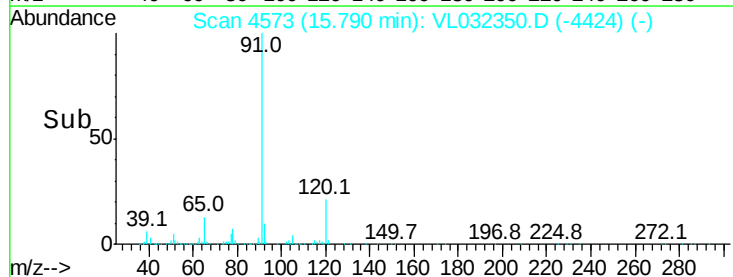
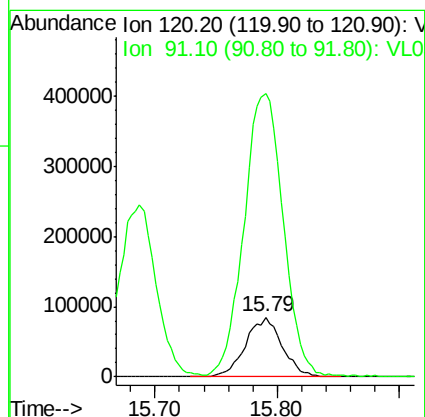
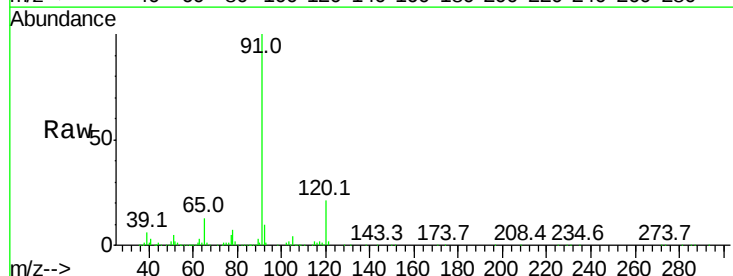
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

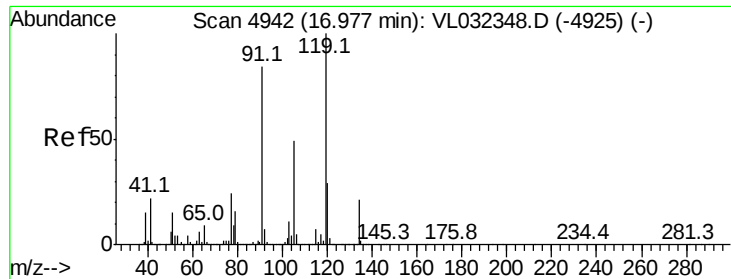
Tgt Ion	Ratio	Lower	Upper
83	100		
131	8.5	4.3	12.8
85	64.8	32.6	97.7



#64
 n-propylbenzene
 Concen: 0.988 ppbv
 RT: 15.79 min Scan# 4573
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
120	100		
91	514.0	381.8	572.8

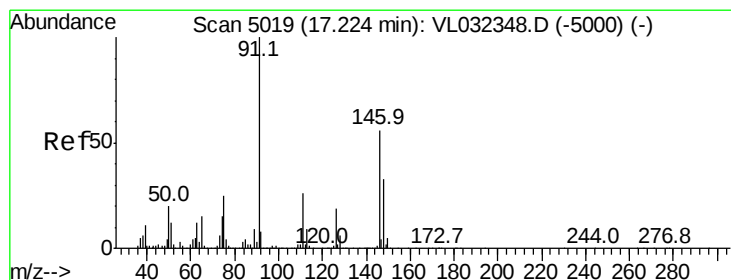
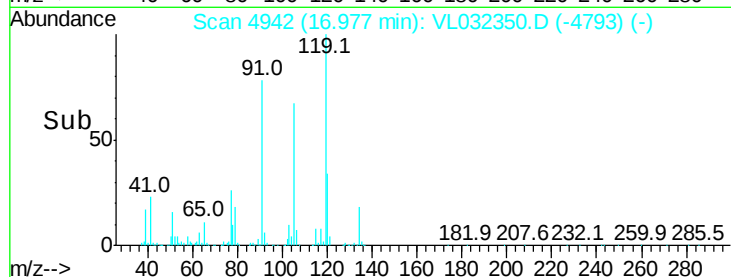
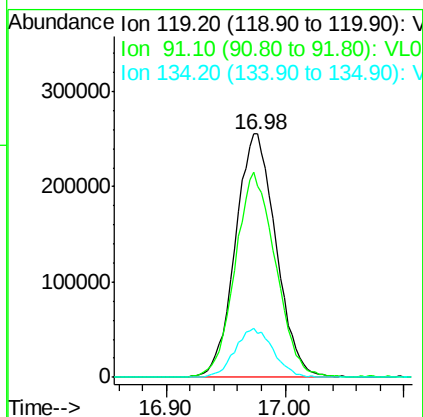
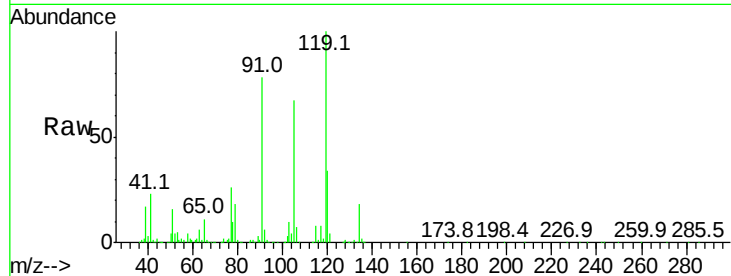




#65
 tert-Butylbenzene
 Concen: 1.051 ppbv
 RT: 16.98 min Scan# 4942
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

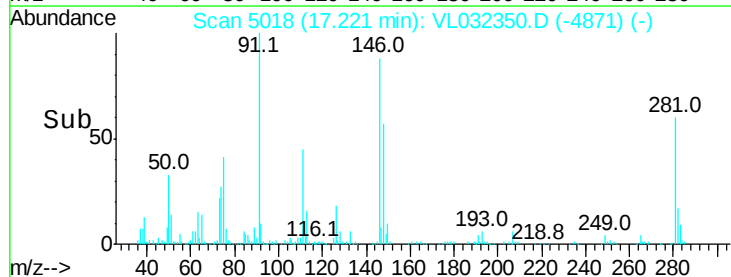
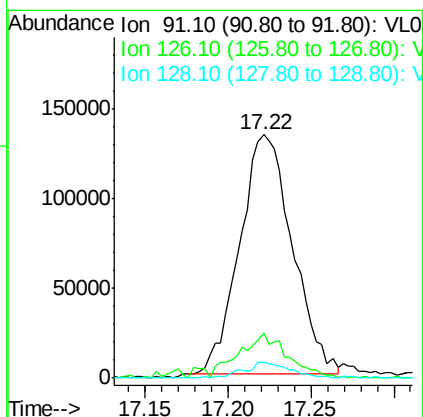
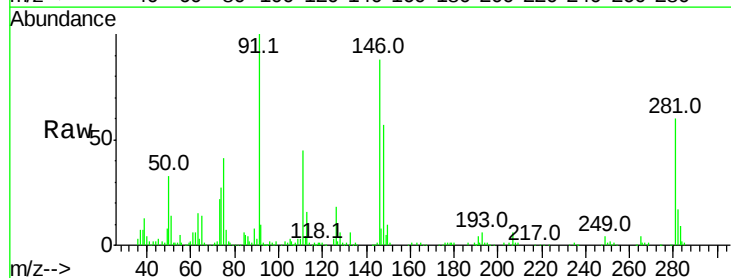
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

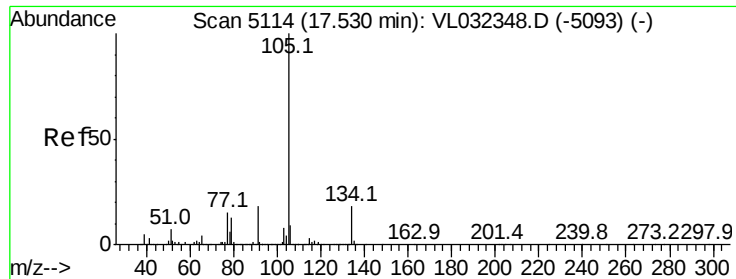
Tgt Ion: 119 Resp: 603139
 Ion Ratio Lower Upper
 119 100
 91 84.4 67.5 101.3
 134 19.1 15.8 23.6



#66
 Benzyl Chloride
 Concen: 0.859 ppbv
 RT: 17.22 min Scan# 5018
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 91 Resp: 293613
 Ion Ratio Lower Upper
 91 100
 126 20.1 13.7 20.5
 128 6.2 4.3 6.5

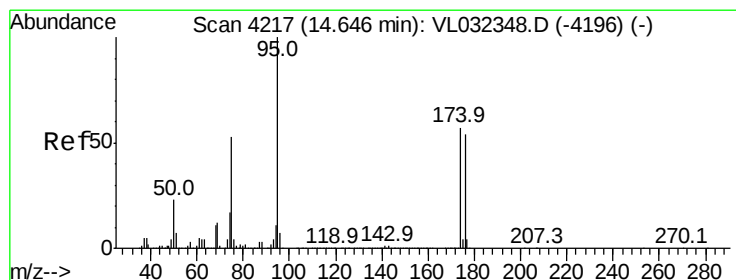
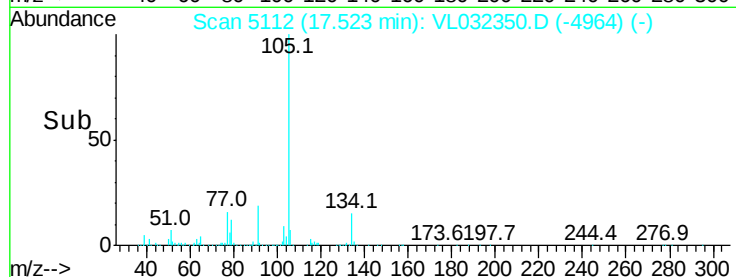
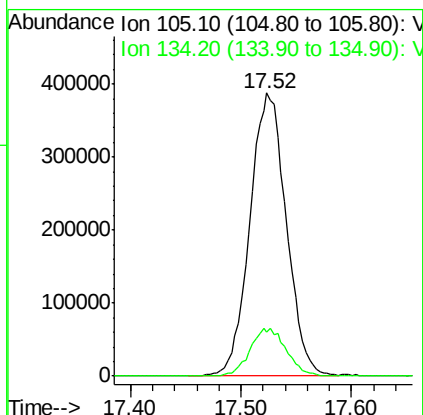
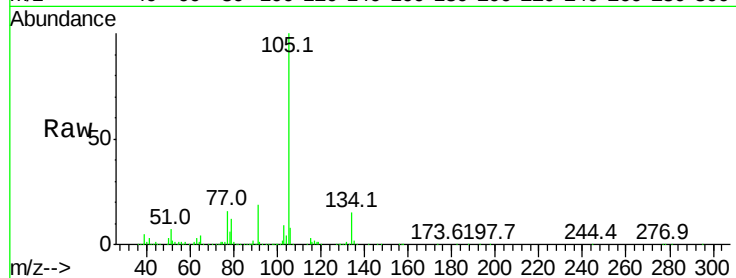




#67
 sec-Butylbenzene
 Concen: 1.031 ppbv
 RT: 17.52 min Scan# 5112
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

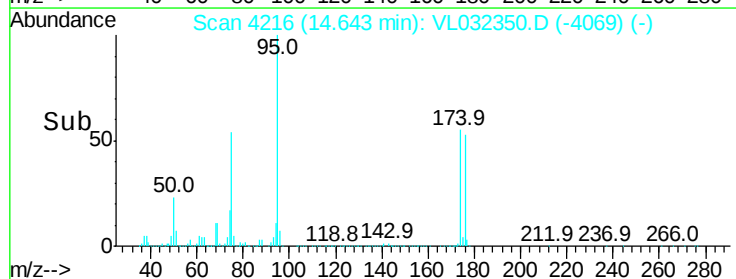
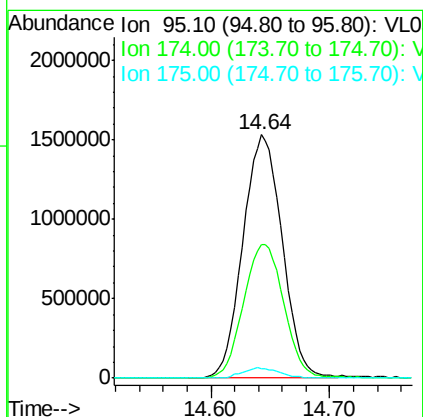
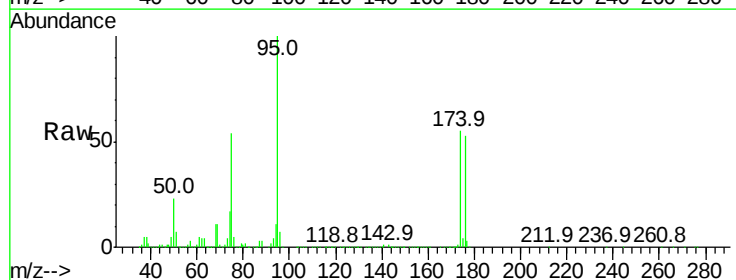
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

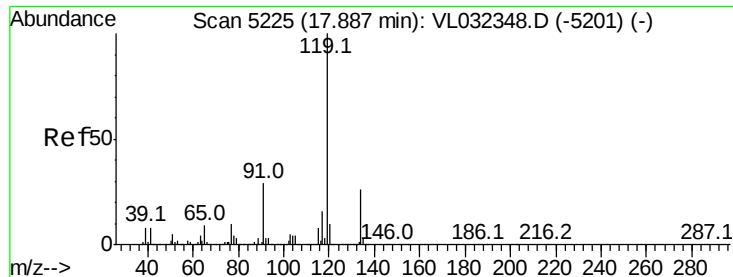
Tgt Ion: 105 Resp: 885875
 Ion Ratio Lower Upper
 105 100
 134 16.8 14.2 21.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.894 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 95 Resp: 3507945
 Ion Ratio Lower Upper
 95 100
 174 56.9 45.5 68.3
 175 4.1 3.3 4.9

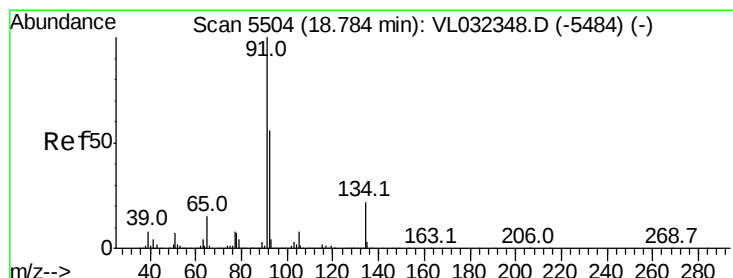
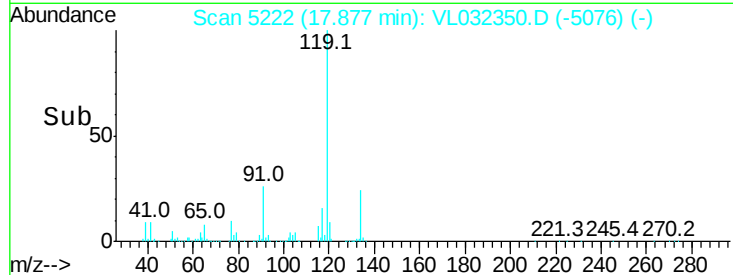
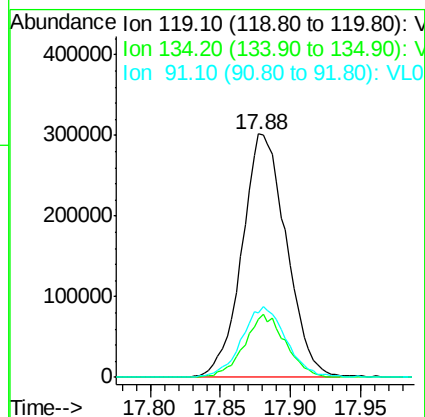
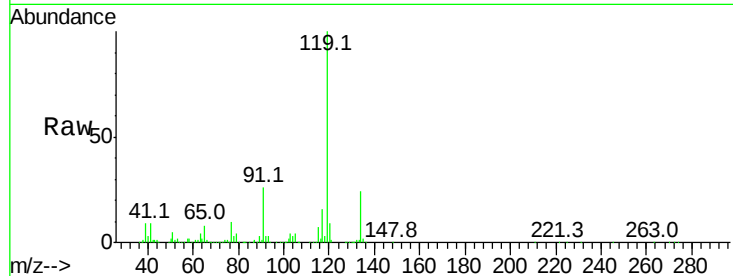




#69
p-Isopropyltoluene
Concen: 0.993 ppbv
RT: 17.88 min Scan# 5222
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

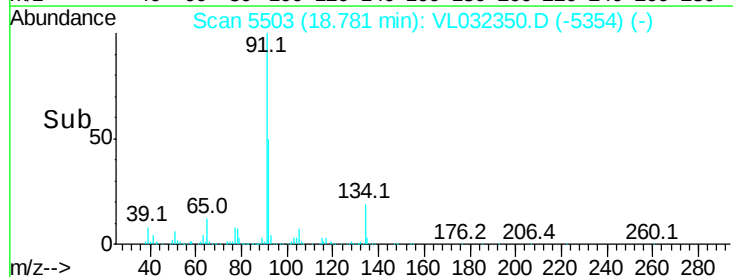
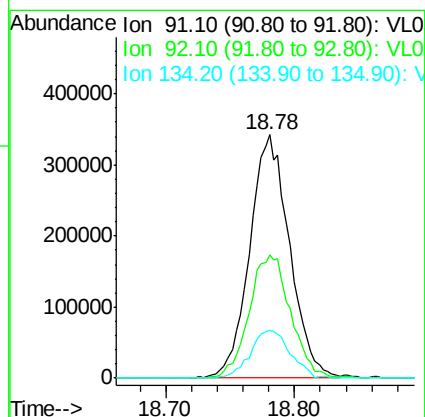
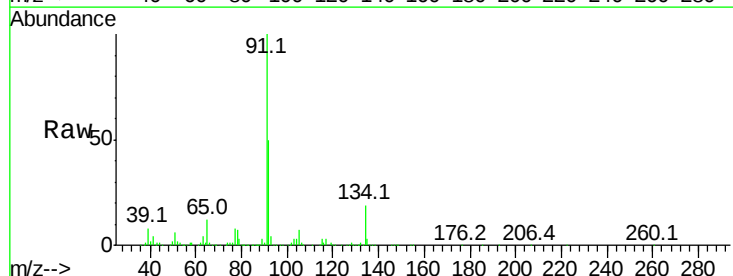
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

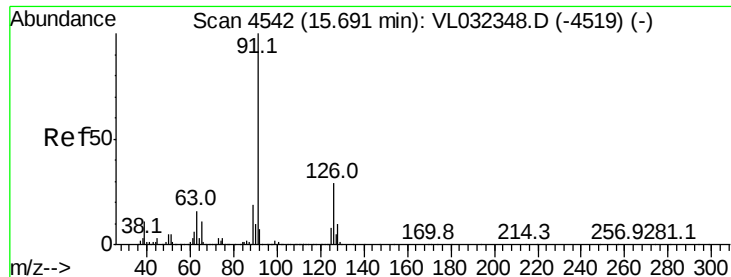
Tgt Ion:	119	Resp:	660971
Ion	Ratio	Lower	Upper
119	100		
134	24.3	20.3	30.5
91	29.5	23.8	35.6



#70
n-Butylbenzene
Concen: 0.956 ppbv
RT: 18.78 min Scan# 5503
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion:	91	Resp:	734925
Ion	Ratio	Lower	Upper
91	100		
92	52.9	44.2	66.4
134	19.8	17.4	26.2





#71

2-Chlorotoluene

Concen: 0.985 ppbv

RT: 15.69 min Scan# 4541

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

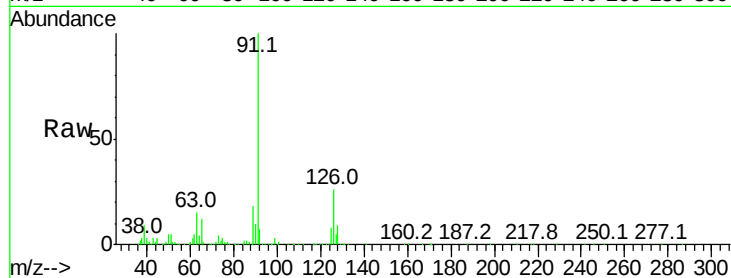
VSTDIC001

Tgt Ion: 91 Resp: 524887

Ion Ratio Lower Upper

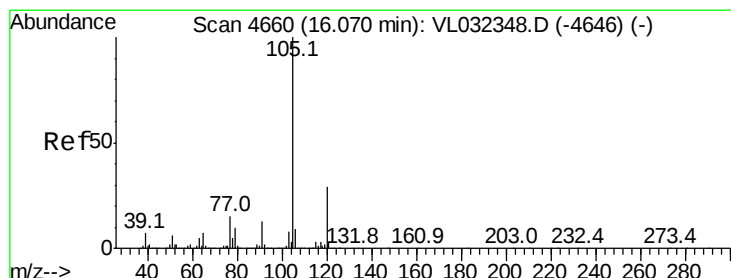
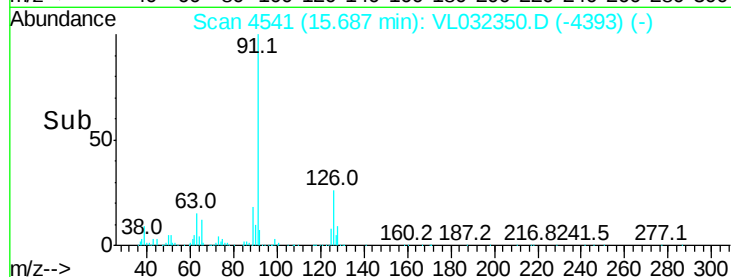
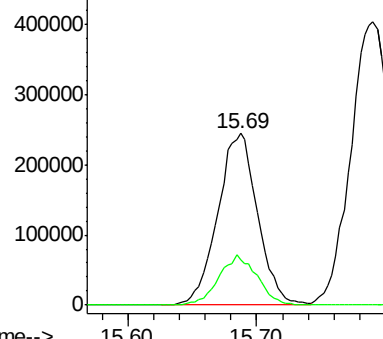
91 100

126 28.3 11.8 47.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.971 ppbv

RT: 16.07 min Scan# 4660

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 105 Resp: 519941

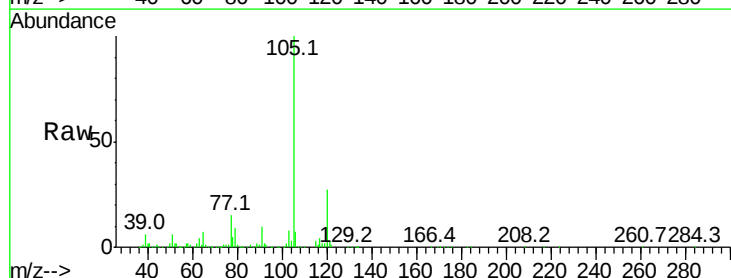
Ion Ratio Lower Upper

105 100

120 29.0 23.1 34.7

91 14.7 10.0 15.0

77 15.6 11.5 17.3

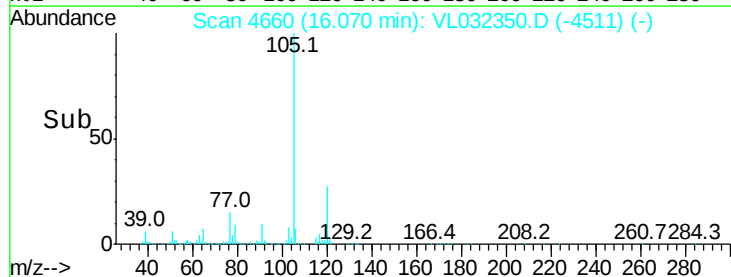
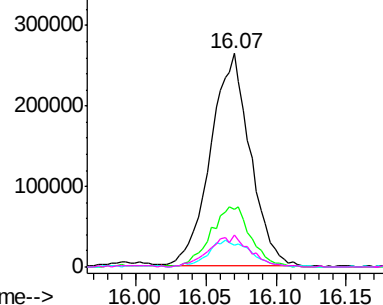


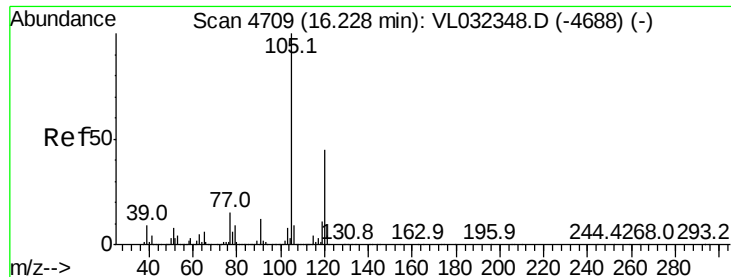
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.948 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

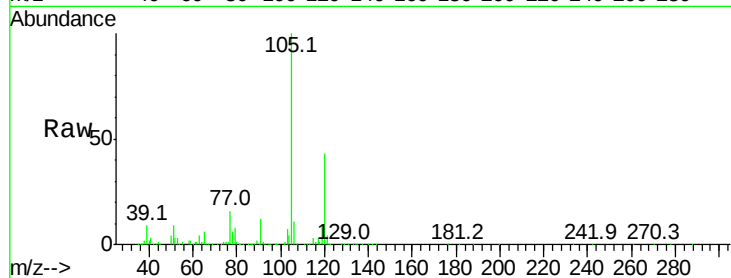
VSTDIC001

Tgt Ion:105 Resp: 499869

Ion Ratio Lower Upper

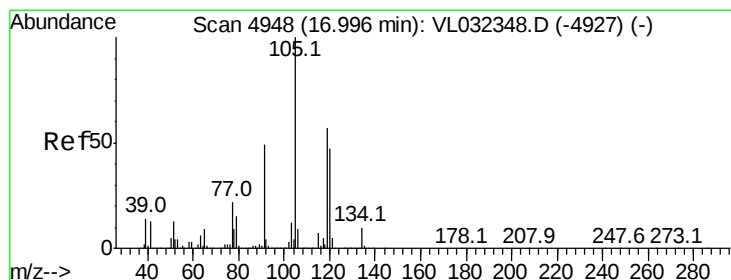
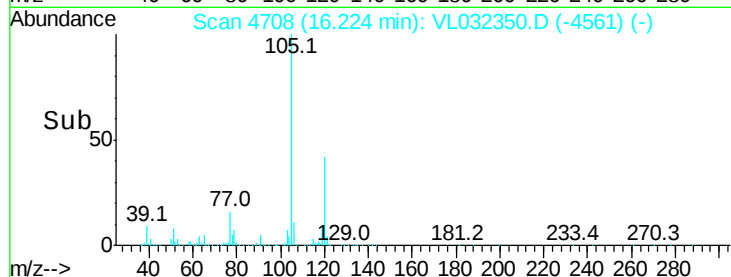
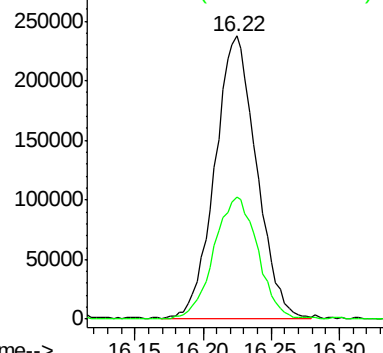
105 100

120 43.0 36.5 54.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.010 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:105 Resp: 561204

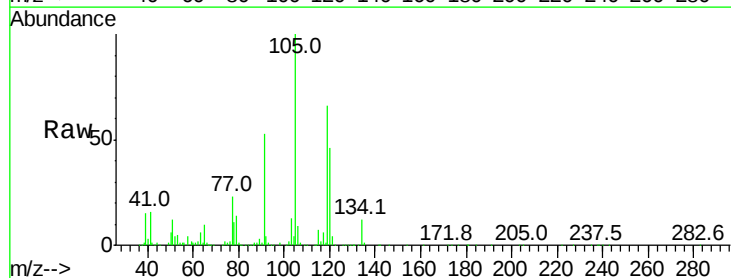
Ion Ratio Lower Upper

105 100

120 45.3 37.8 56.6

91 52.0 39.4 59.0

77 22.9 17.6 26.4

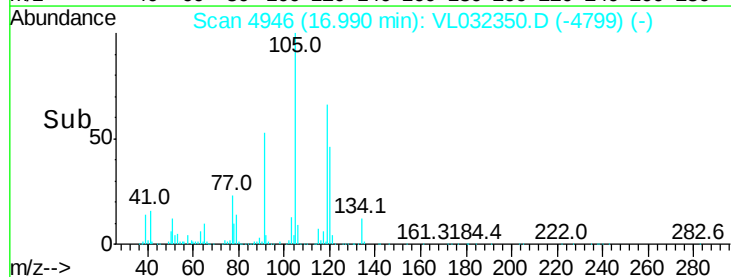
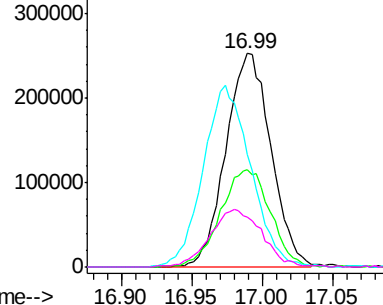


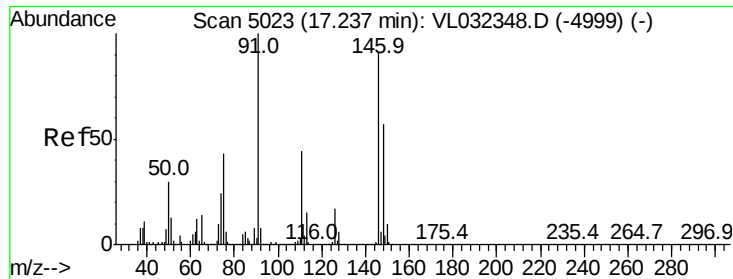
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 1.039 ppbv

RT: 17.23 min Scan# 5022

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

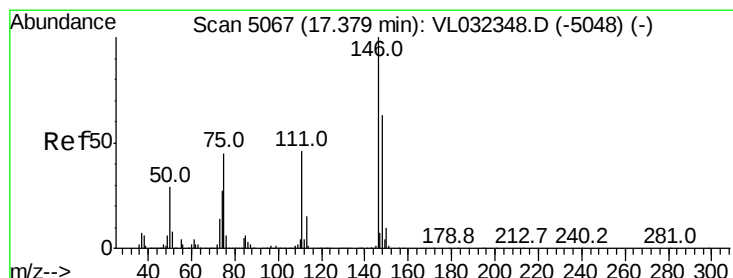
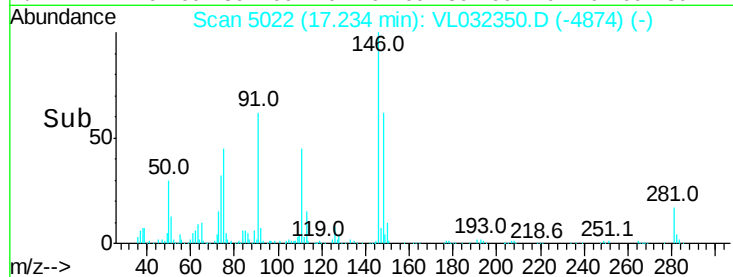
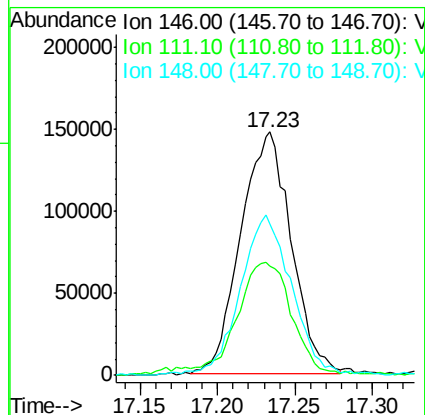
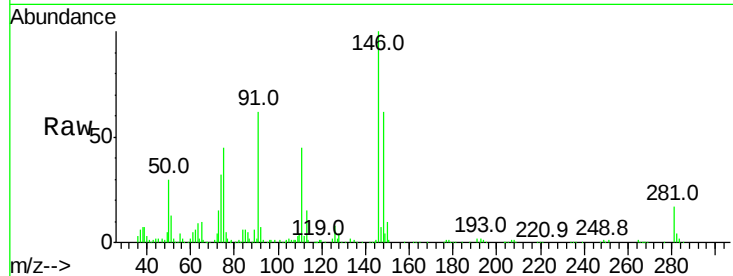
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	334591
Ion	Ratio	Lower	Upper
146	100		
111	52.7	24.6	73.8
148	68.3	31.6	95.0



#76

1,4-Dichlorobenzene

Concen: 1.012 ppbv

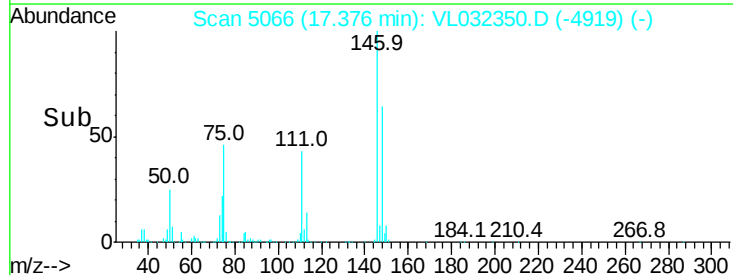
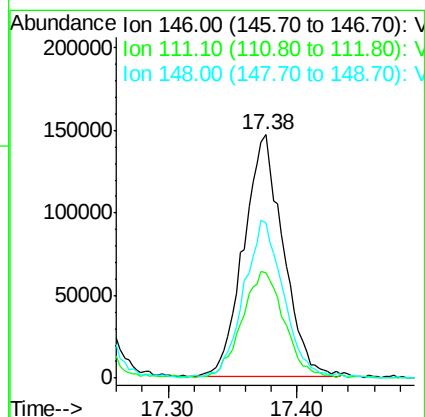
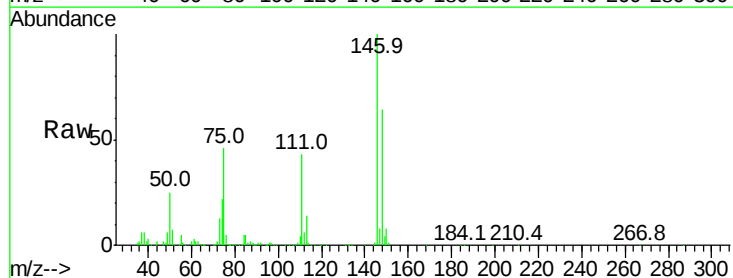
RT: 17.38 min Scan# 5066

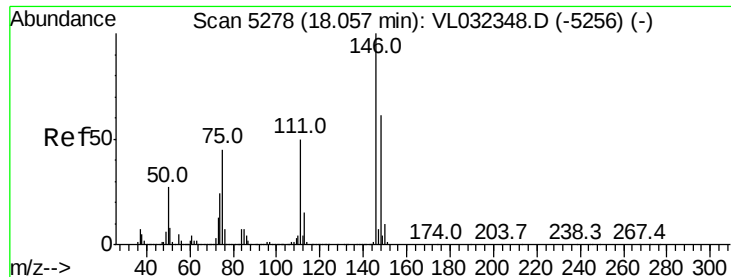
Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:	146	Resp:	312502
Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.6	70.8
148	66.7	32.1	96.3

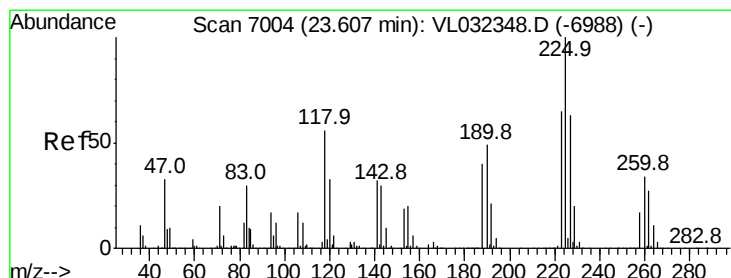
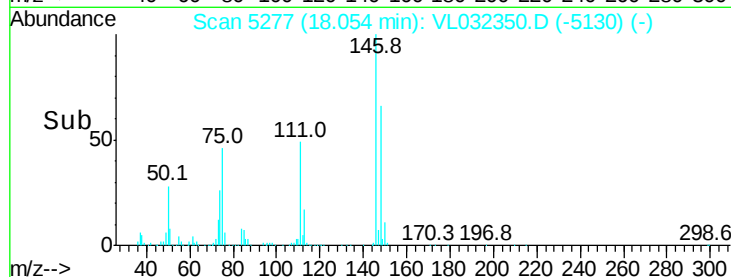
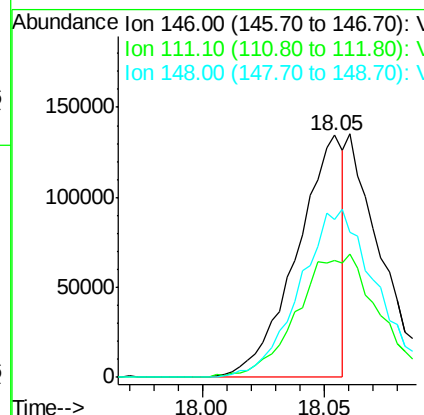
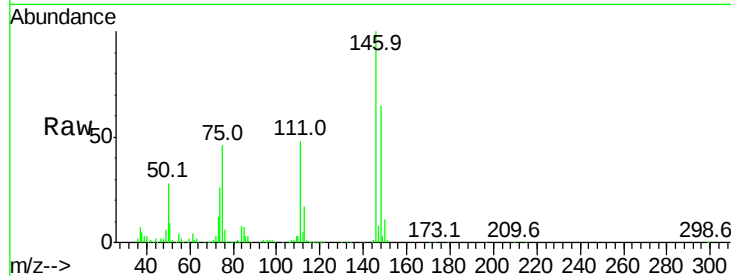




#77
 1,2-Dichlorobenzene
 Concen: 0.562 ppbv
 RT: 18.05 min Scan# 5277
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

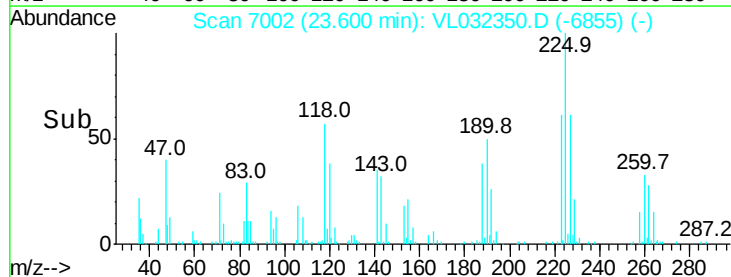
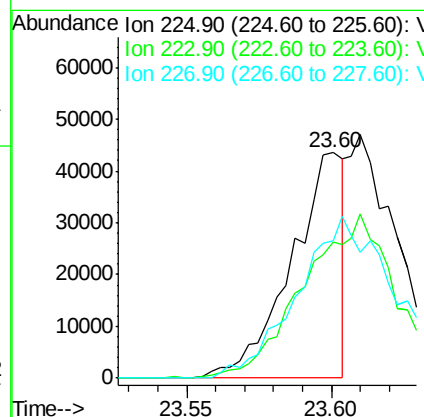
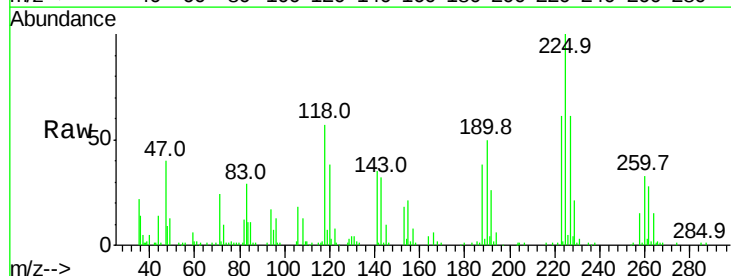
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

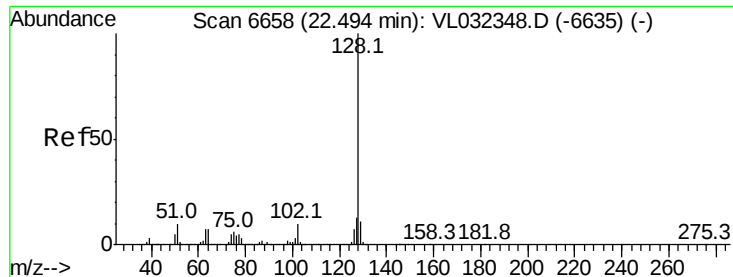
Tgt Ion:146 Resp: 177700
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.1 75.3#
 148 116.4 31.9 95.7#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.492 ppbv
 RT: 23.60 min Scan# 7002
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion:225 Resp: 54695
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.5 75.7#
 227 131.9 51.3 76.9#





#79

Naphthalene

Concen: 0.315 ppbv

RT: 22.49 min Scan# 6657

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

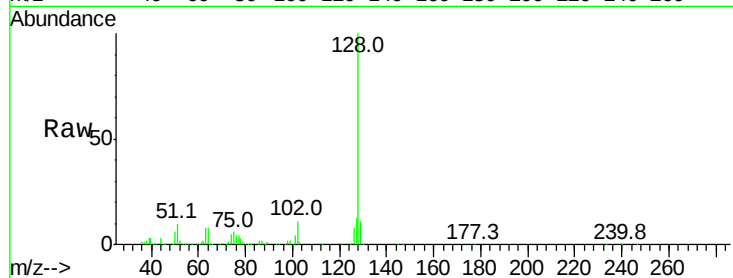
Tgt Ion:128 Resp: 151922

Ion Ratio Lower Upper

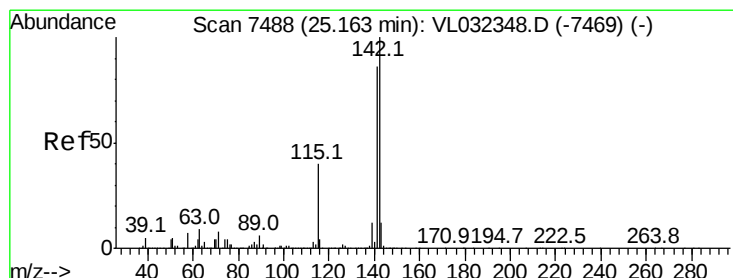
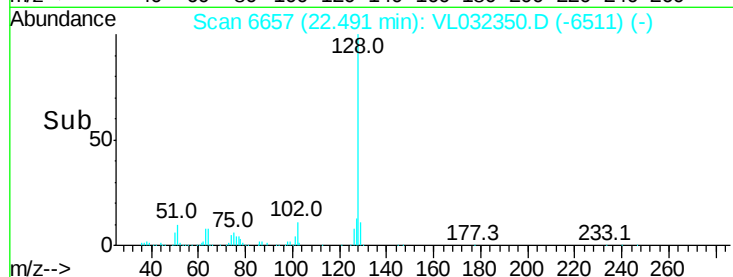
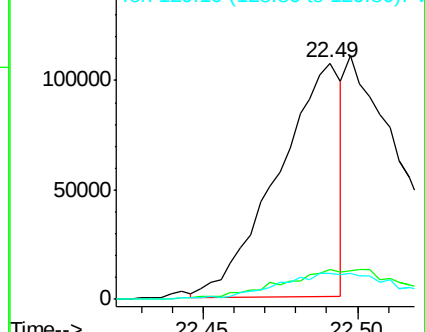
128 100

127 12.4 9.9 14.9

129 10.4 8.8 13.2



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: 0.109 ppbv

RT: 25.17 min Scan# 7489

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

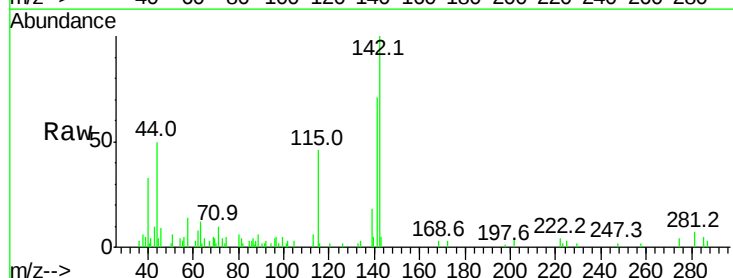
Tgt Ion:142 Resp: 20893

Ion Ratio Lower Upper

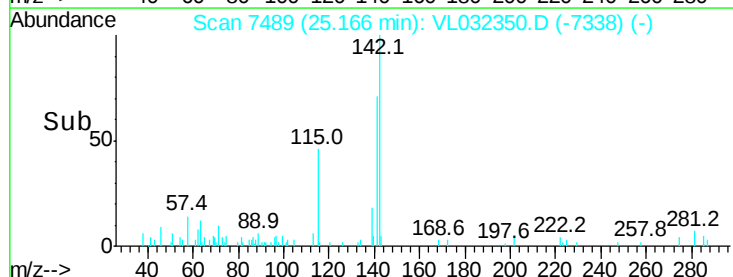
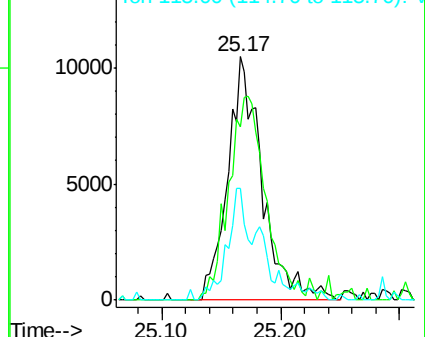
142 100

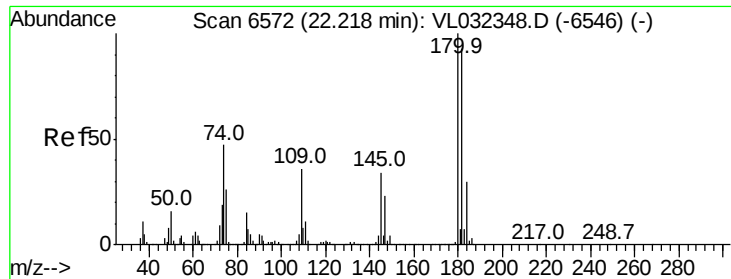
141 91.5 66.7 100.1

115 45.7 31.1 46.7



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: 0.729 ppbv

RT: 22.22 min Scan# 6572

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

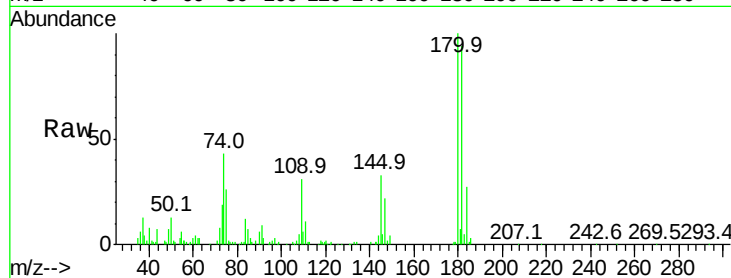
Tgt Ion:180 Resp: 175680

Ion Ratio Lower Upper

180 100

182 99.0 76.2 114.2

184 31.3 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

